



California ISO

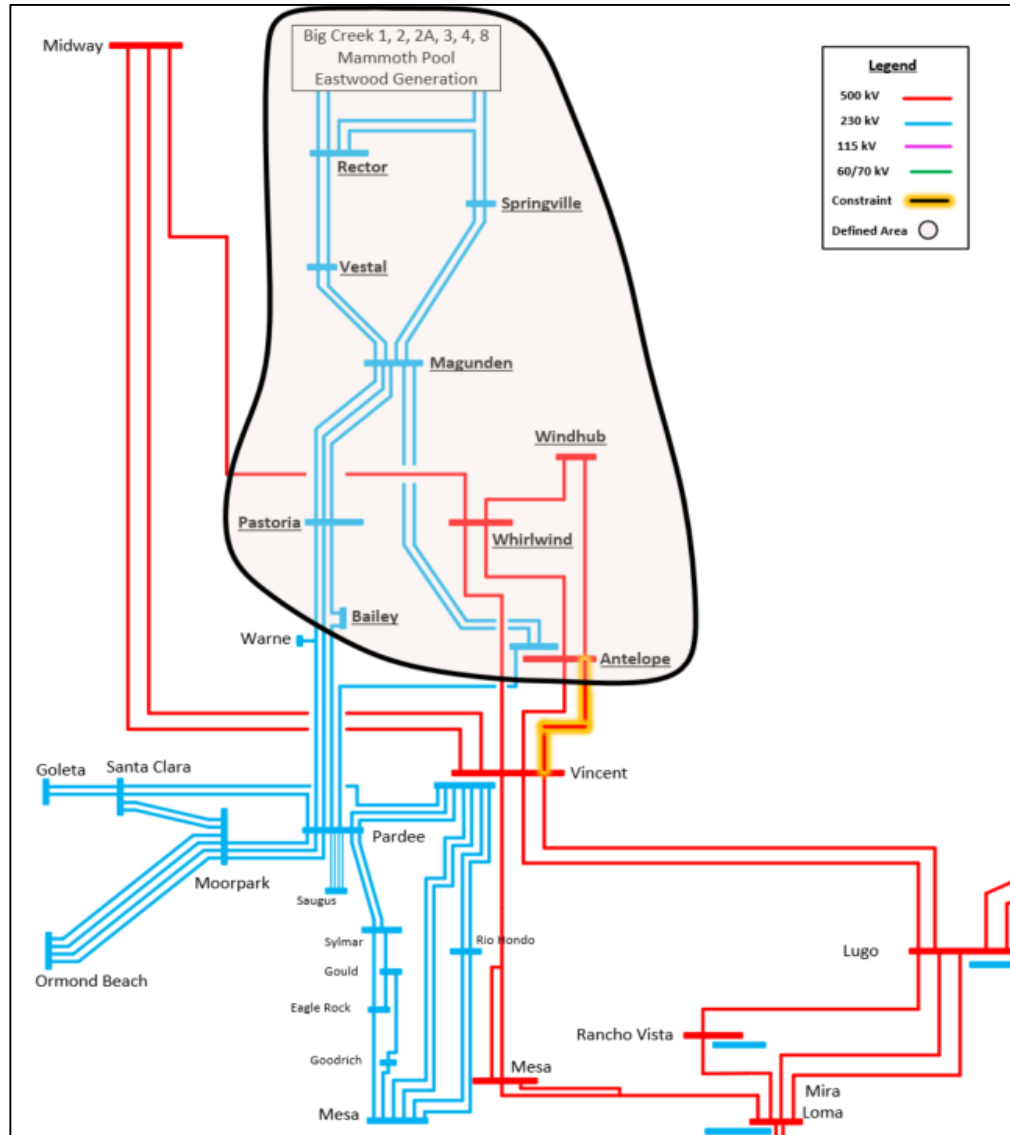
Attachment B1

Deliverability Constraint Boundary Diagrams

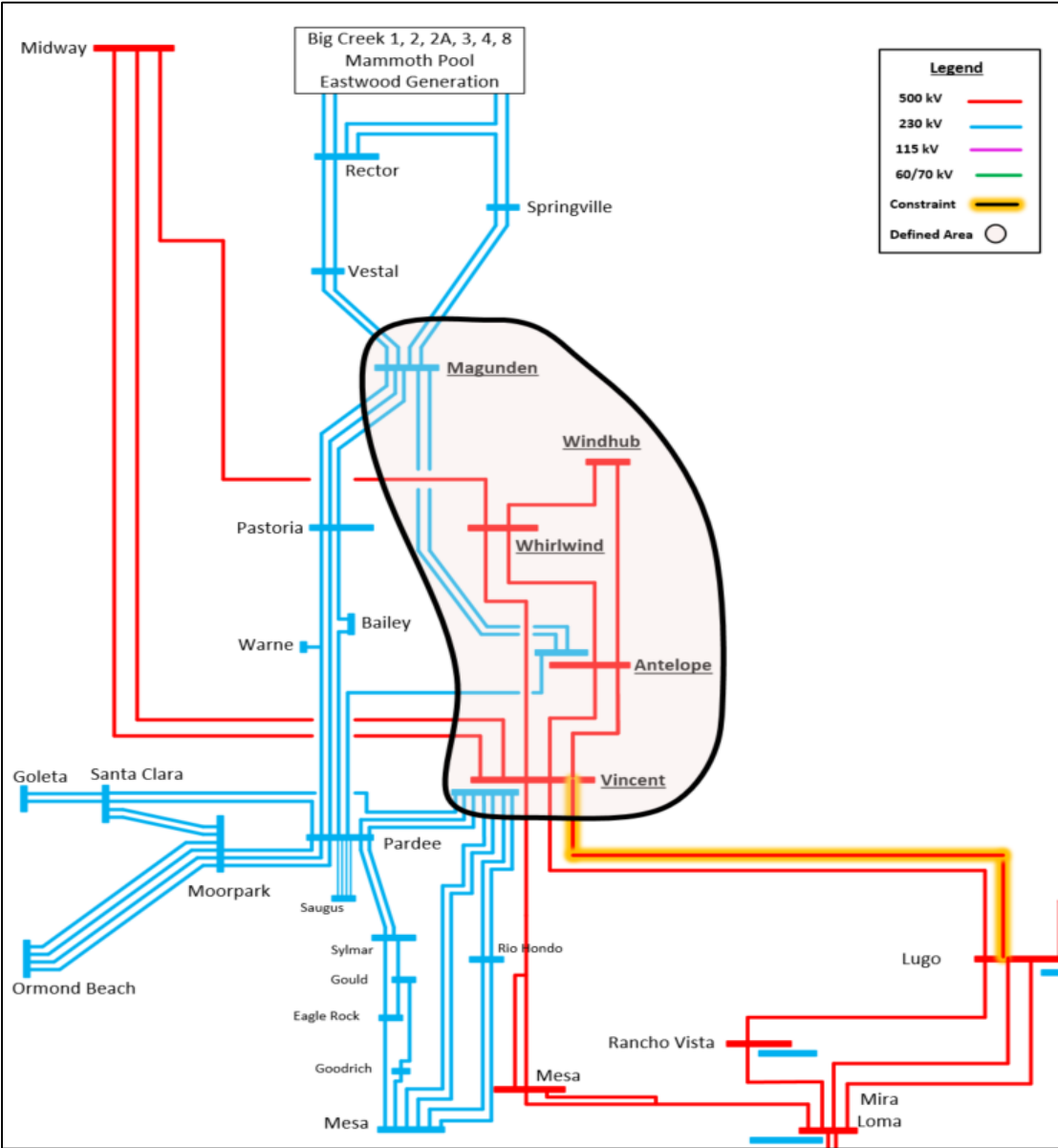
6/28/2023

SCE Northern Interconnection Area Deliverability Constraints

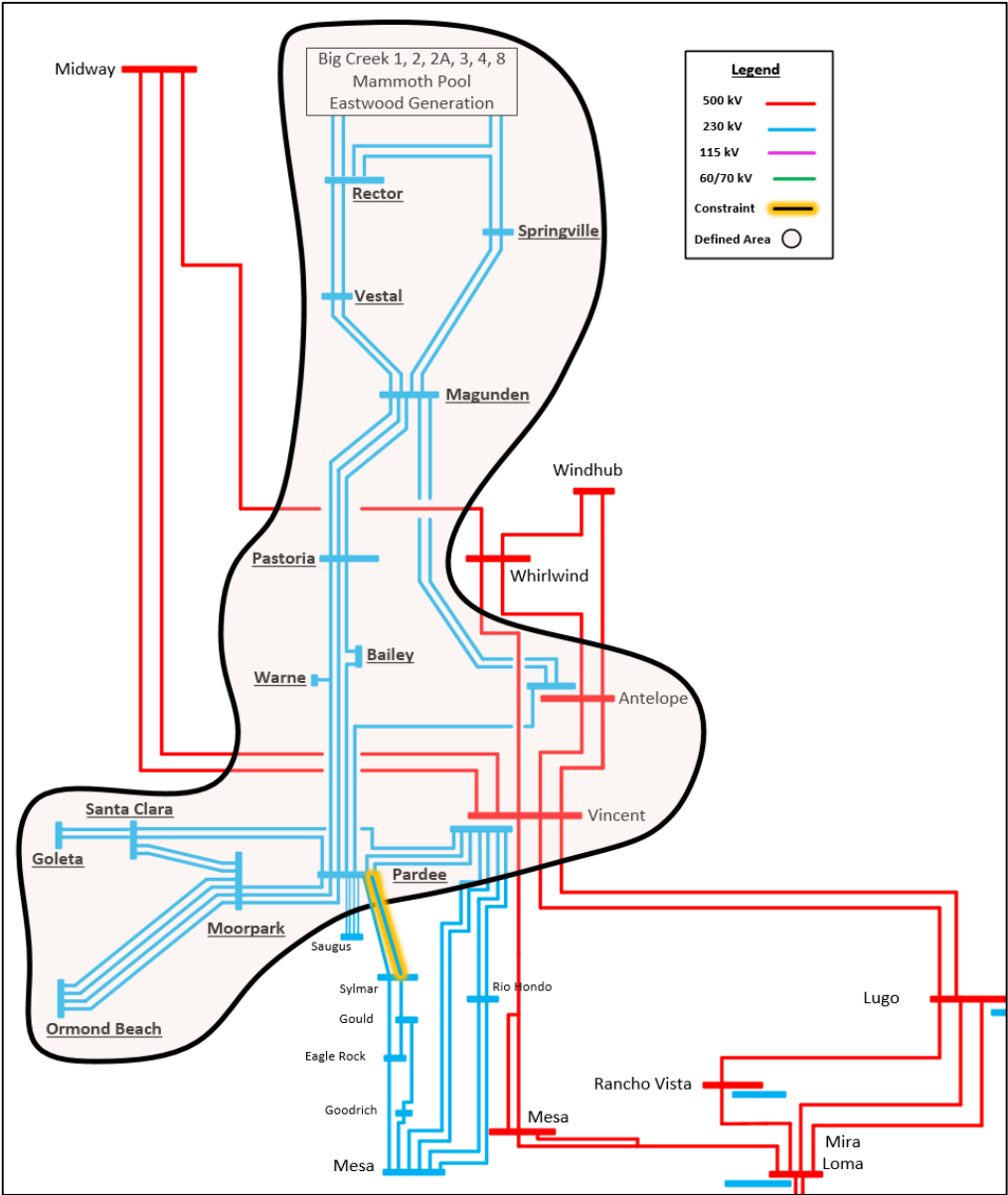
Antelope-Vincent On-Peak and Off-Peak Constraint



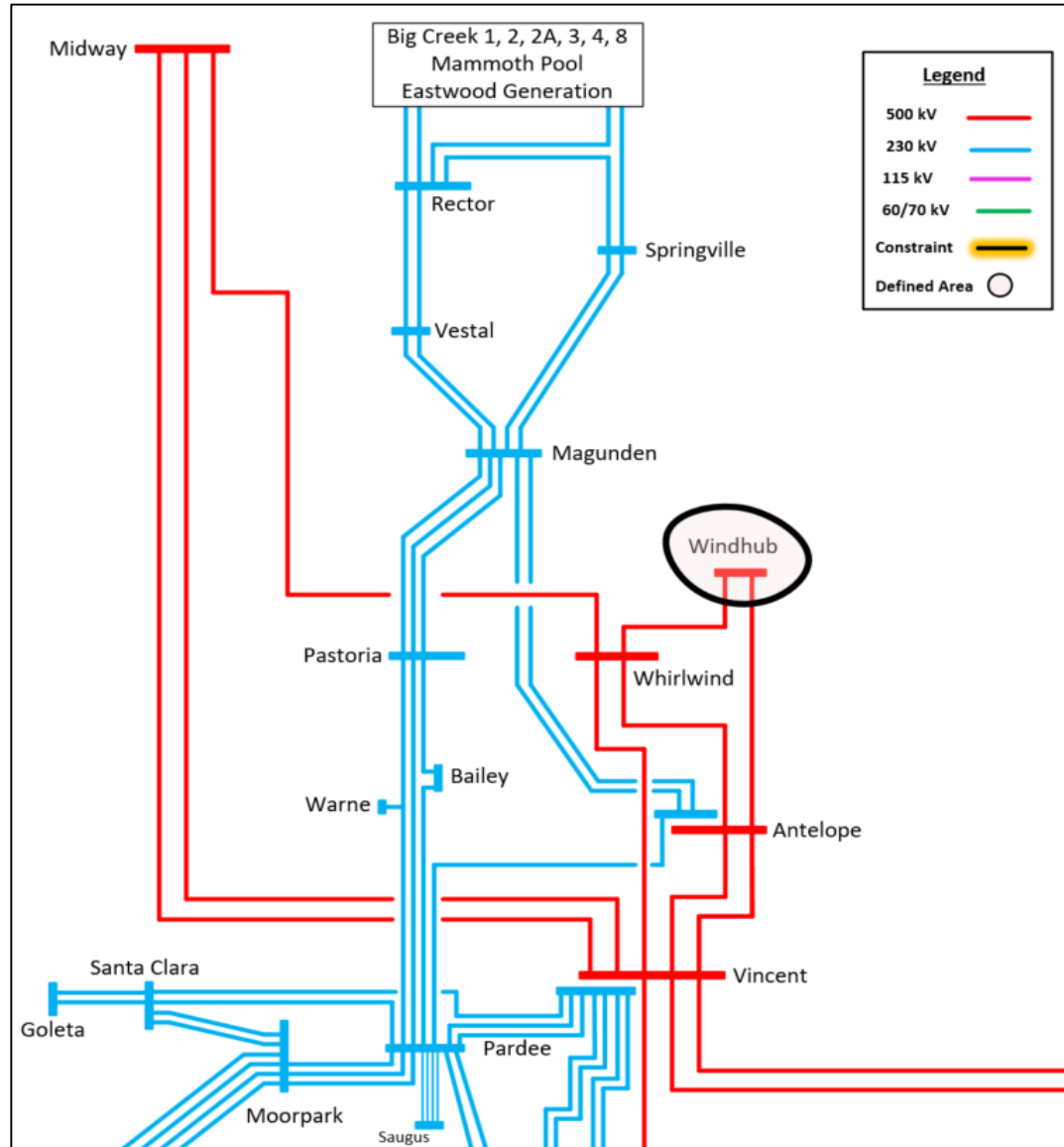
Vincent-Lugo On-Peak Constraint



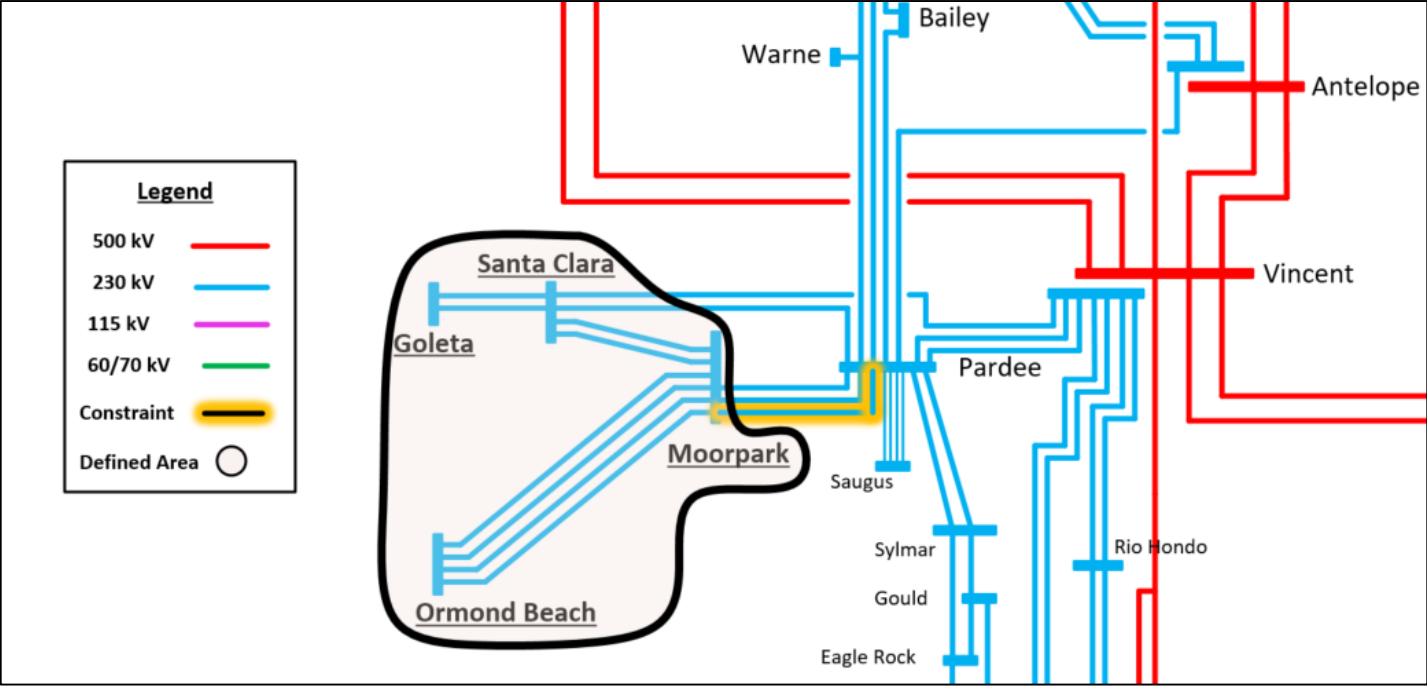
Pardee-Sylmar On-Peak Constraint



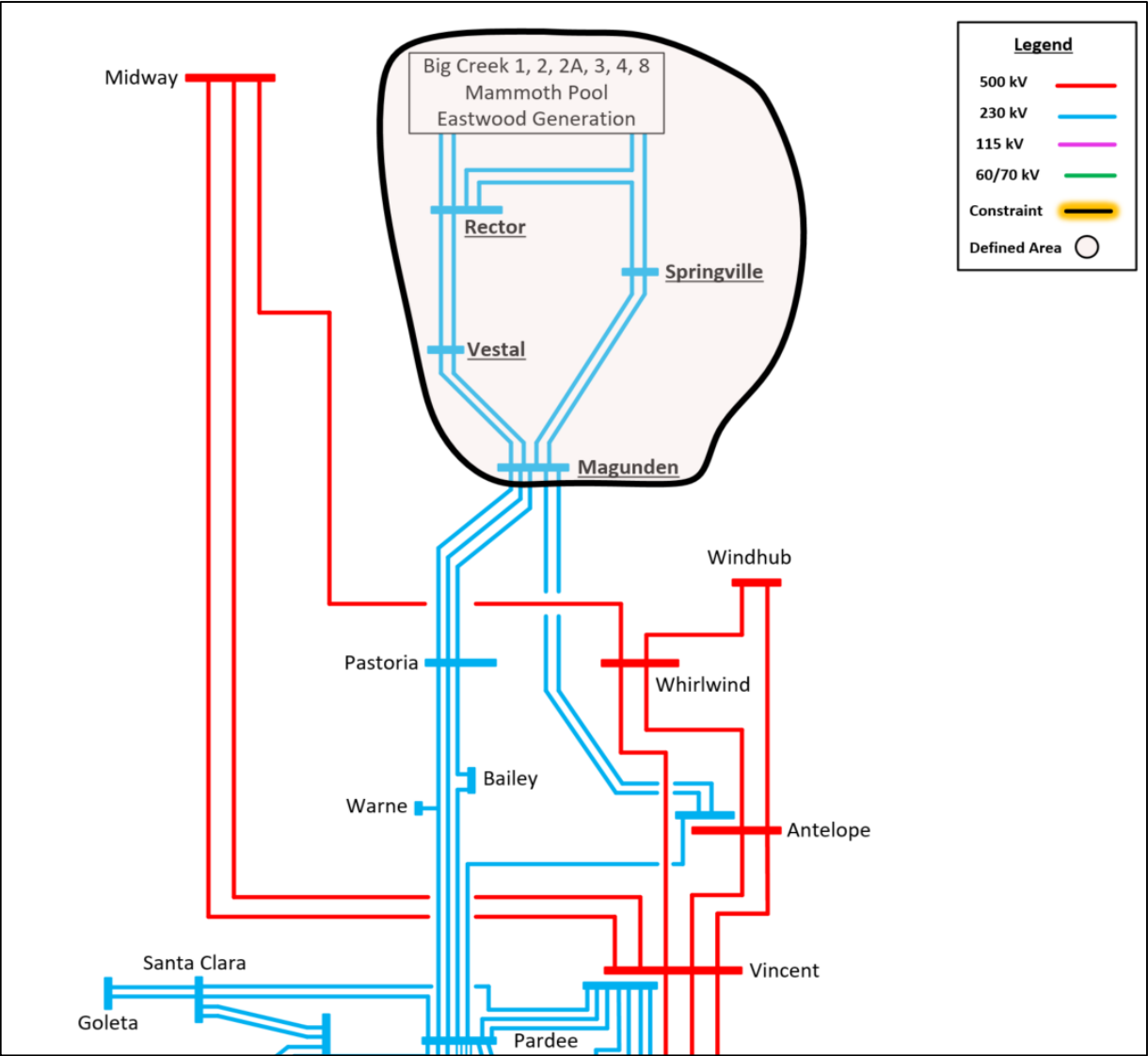
Windhub On-Peak Constraint



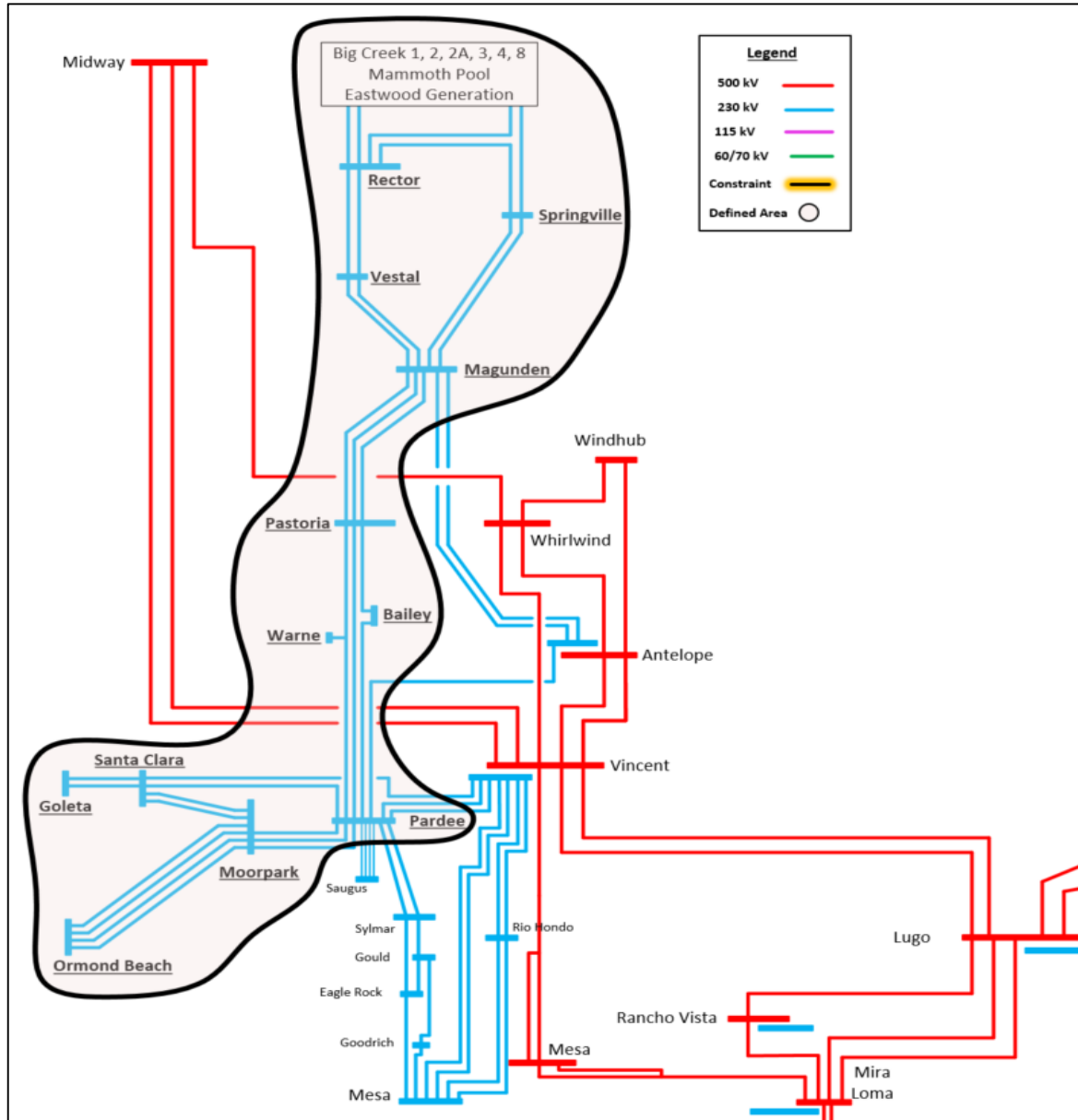
Moorpark-Pardee On-Peak Constraint



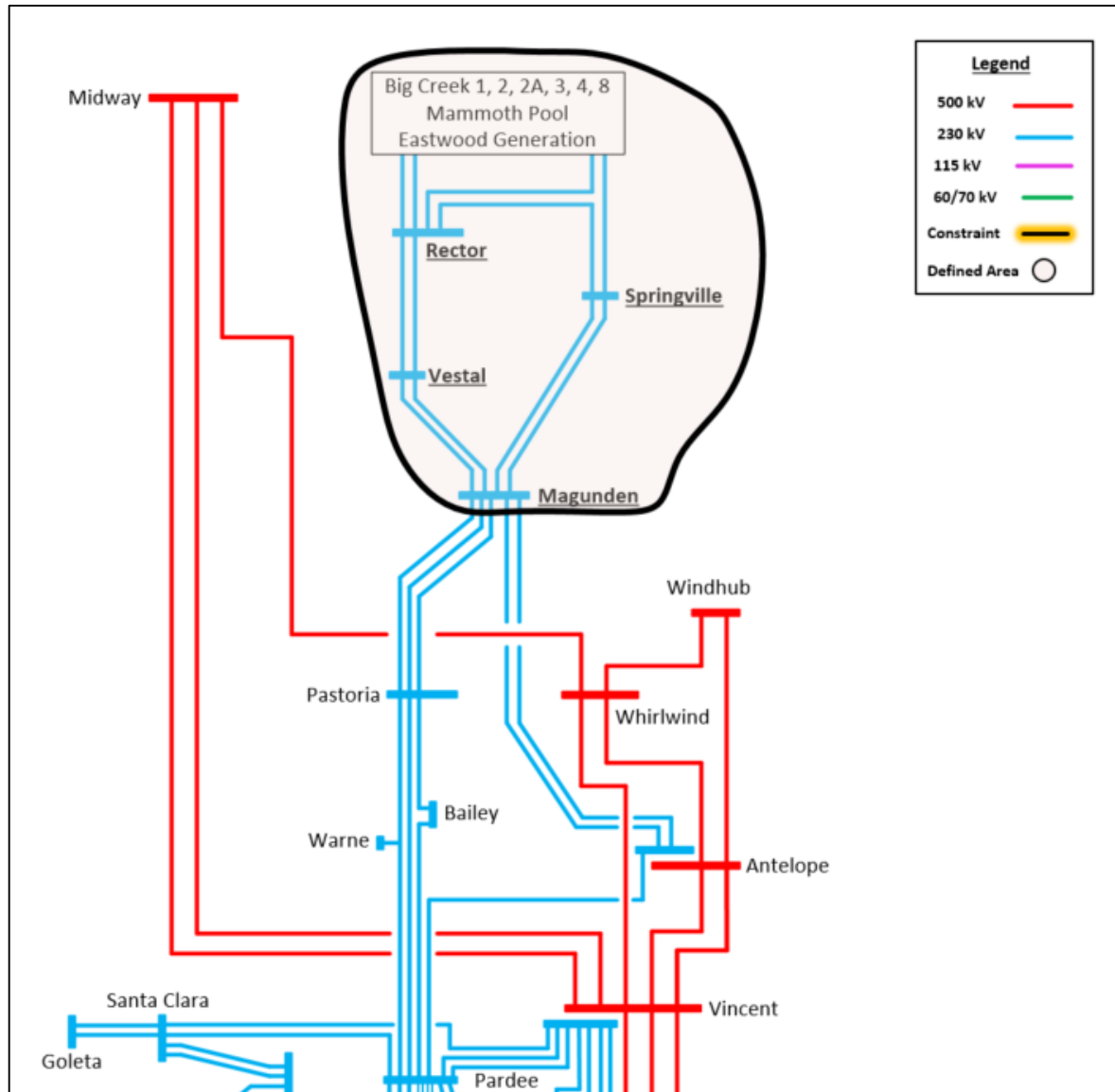
North of Magunden On-Peak Constraint



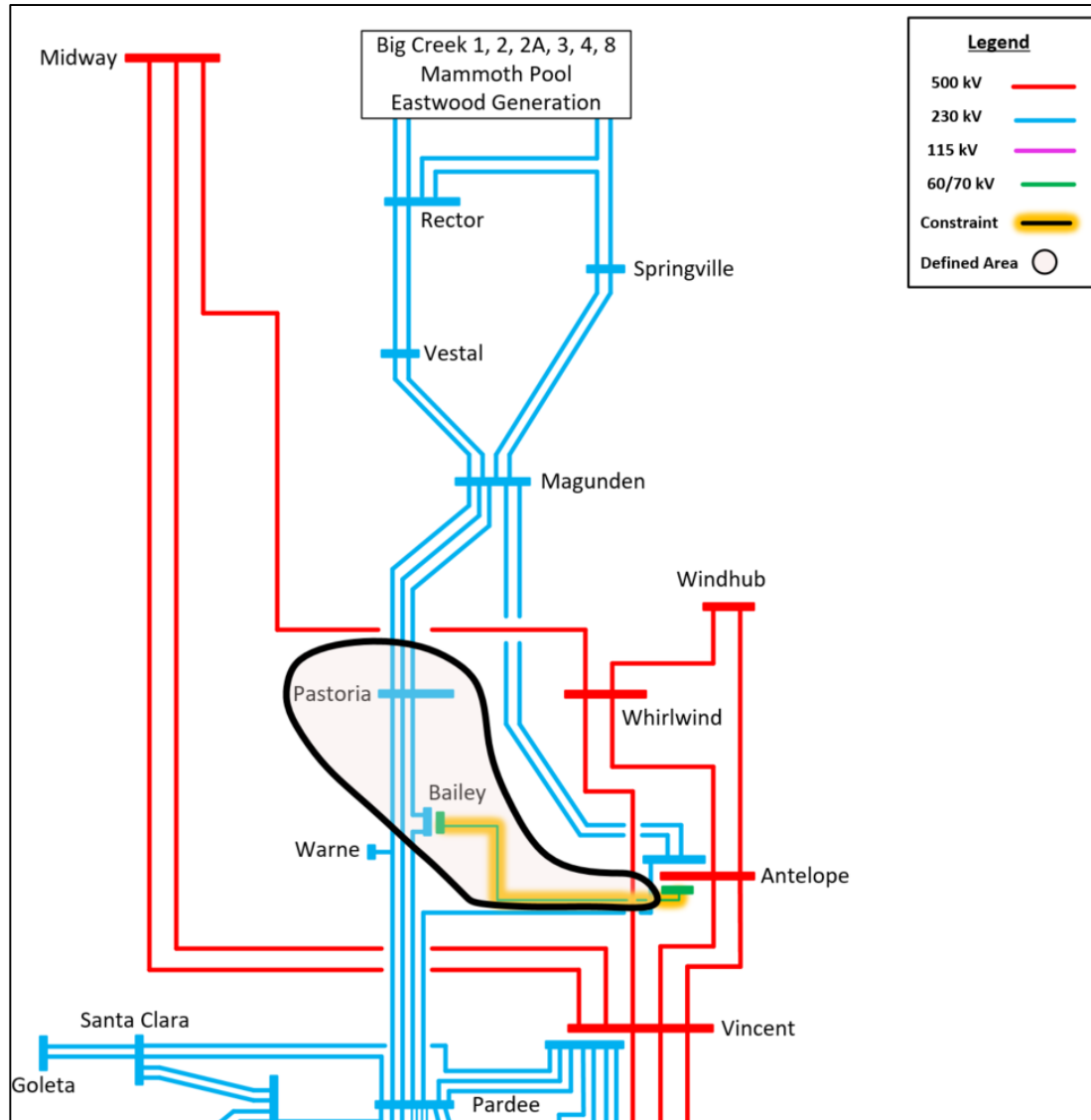
South of Magunden On-Peak Constraint



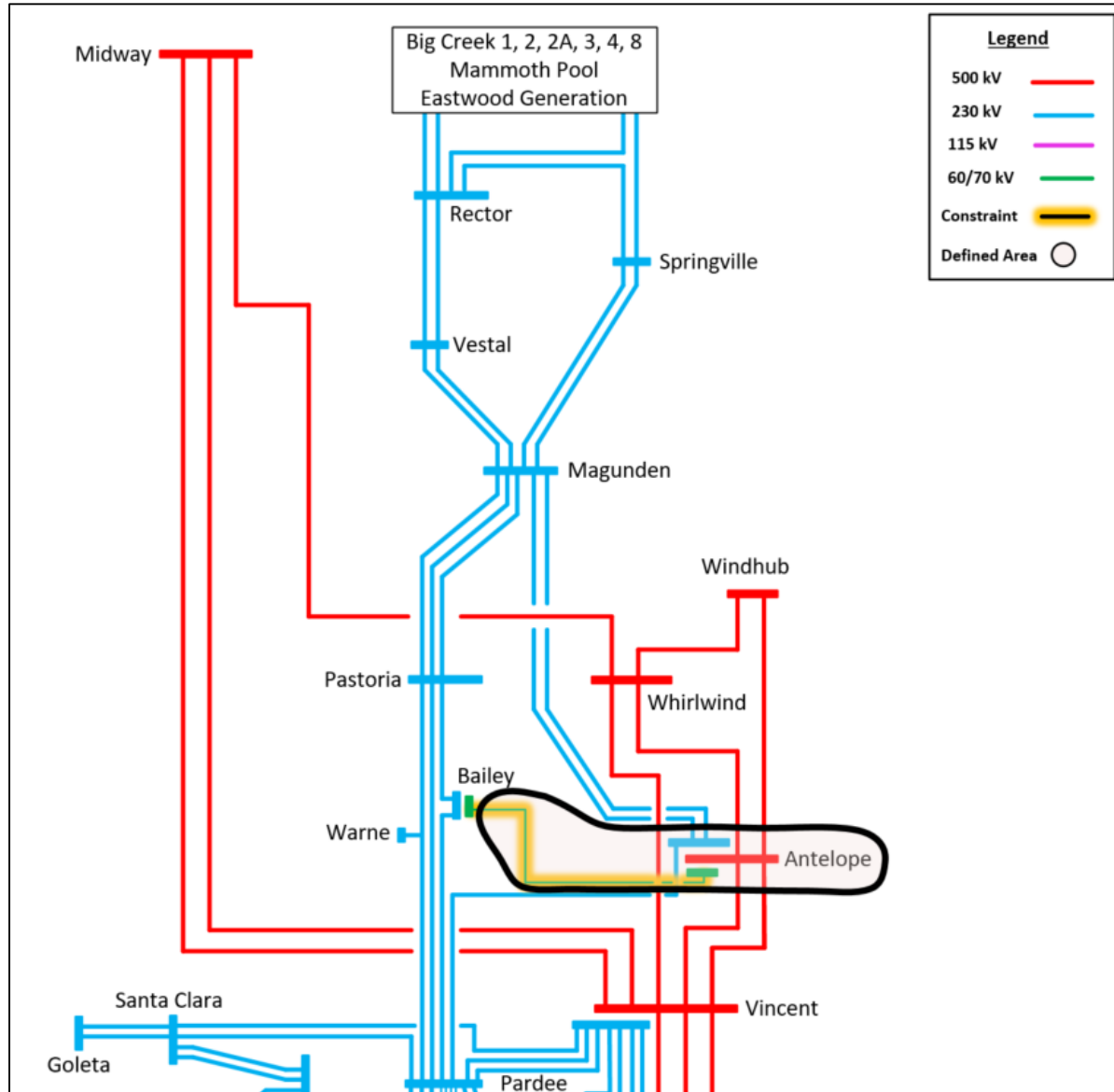
South of Magunden Off-Peak Constraint



Antelope-Neenach On-Peak Constraint

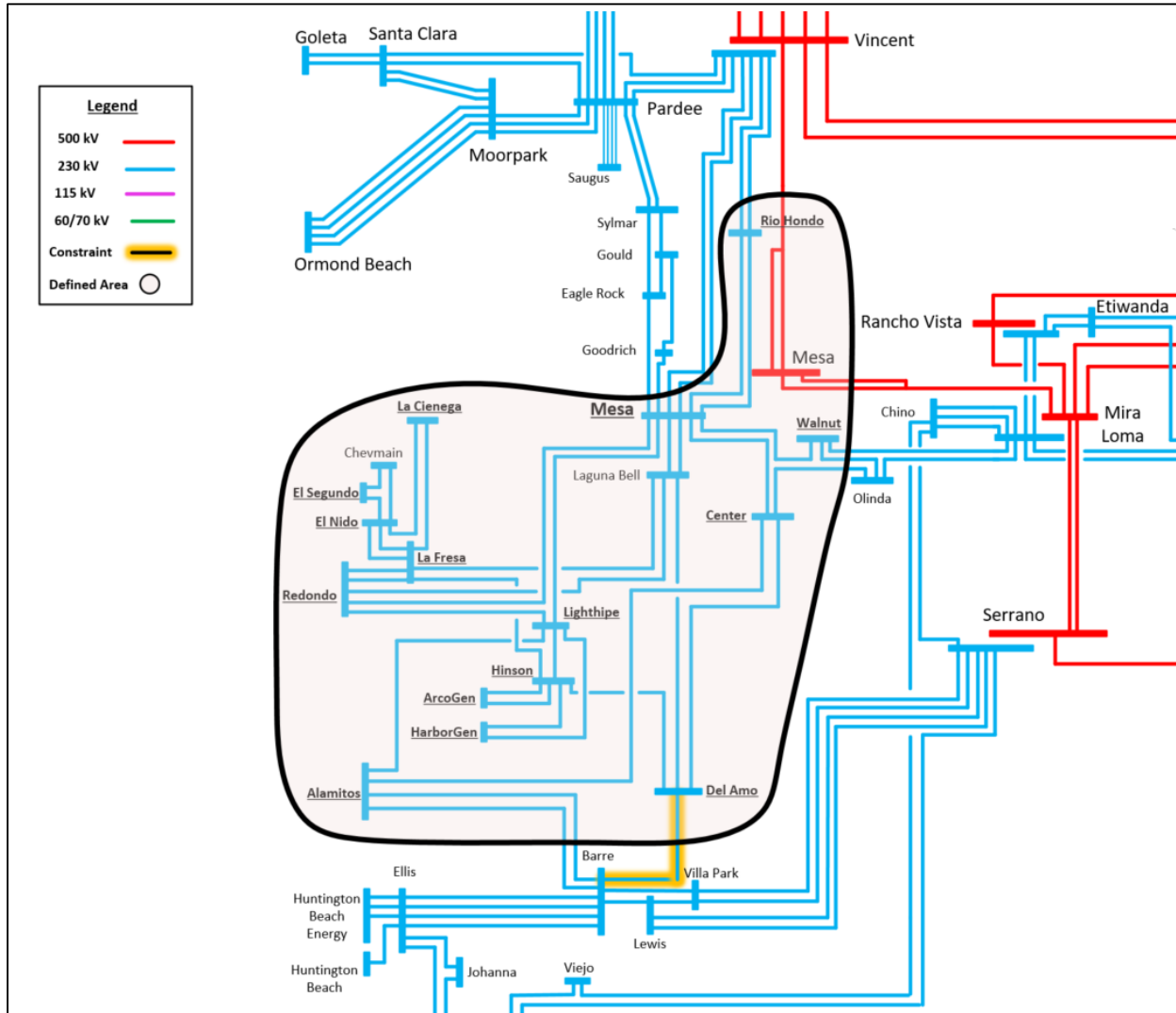


Antelope-Neenach Off-Peak Constraint

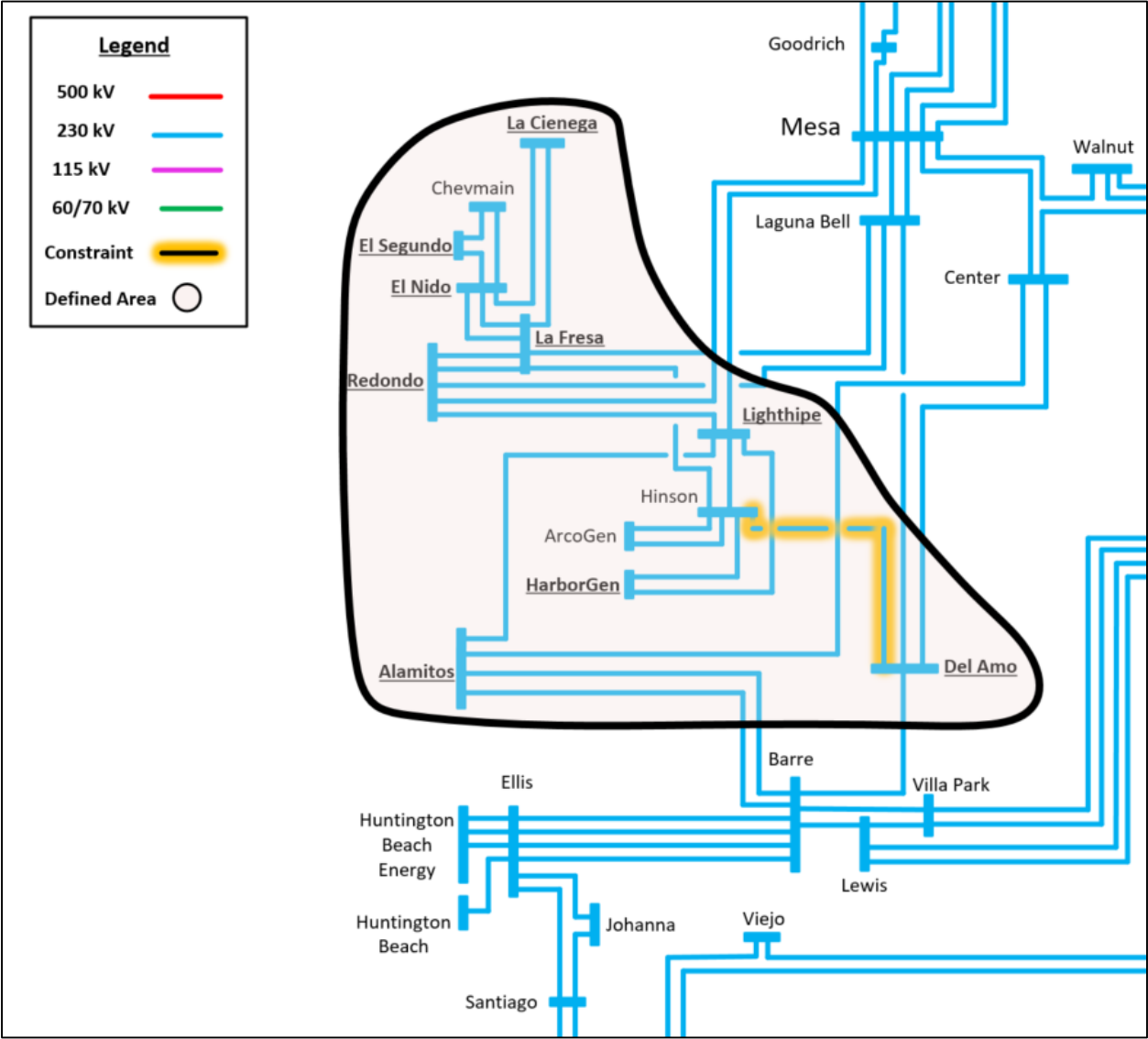


SCE Metro Interconnection Area Deliverability Constraints

Del Amo – Barre On-Peak Constraint

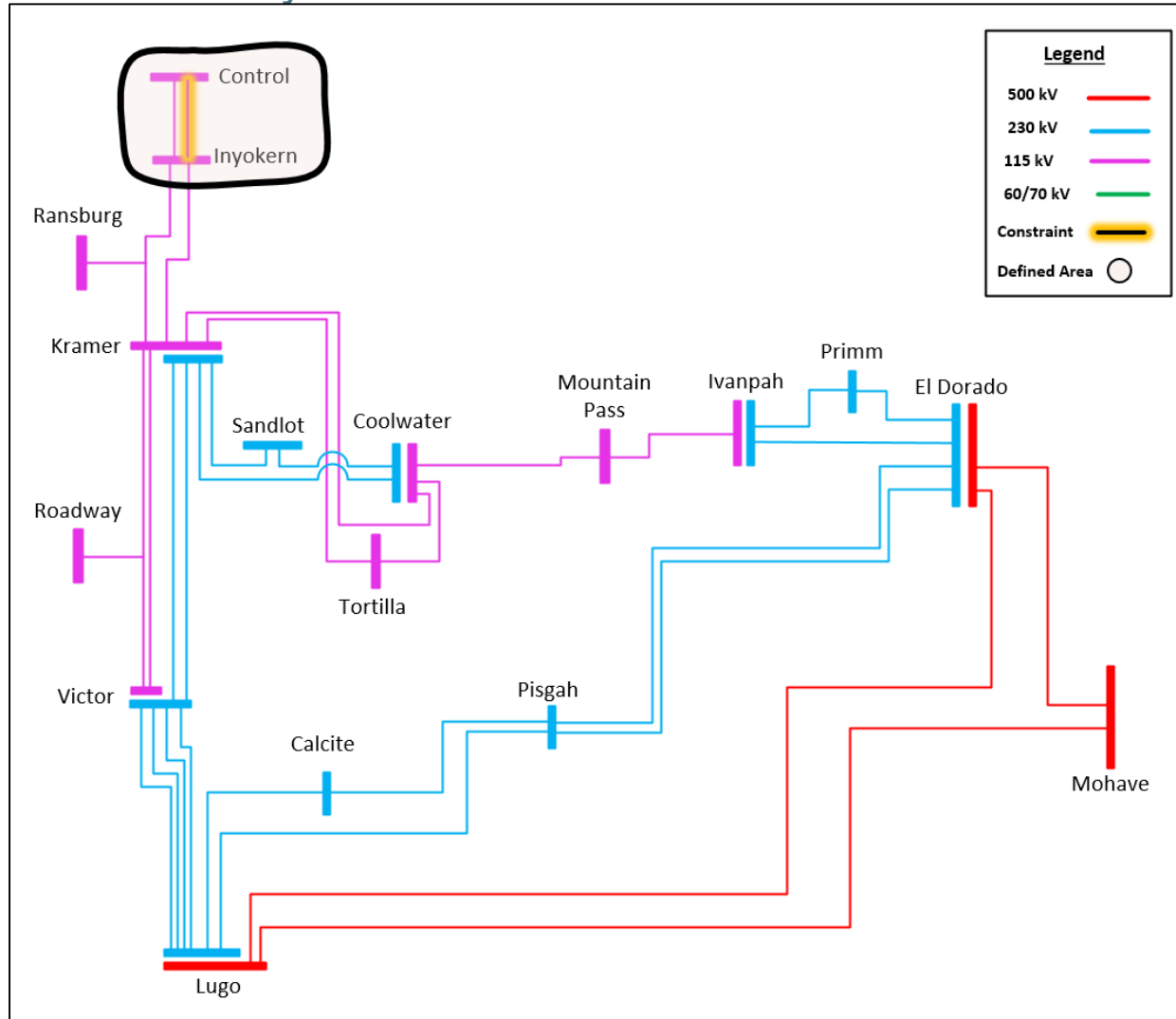


Hinson - Del Amo On-Peak Constraint

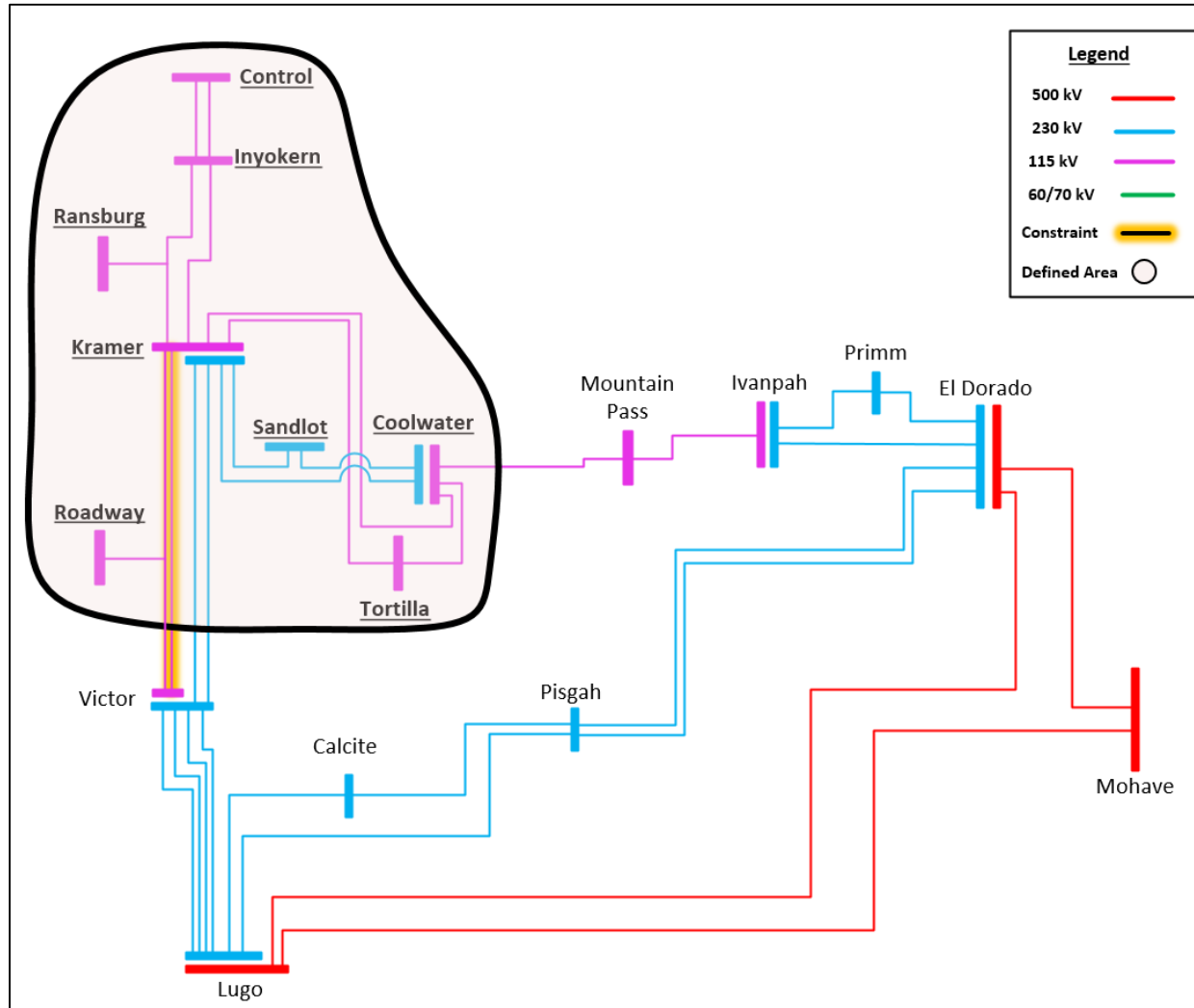


SCE North of Lugo (NOL) Interconnection Area Deliverability Constraints

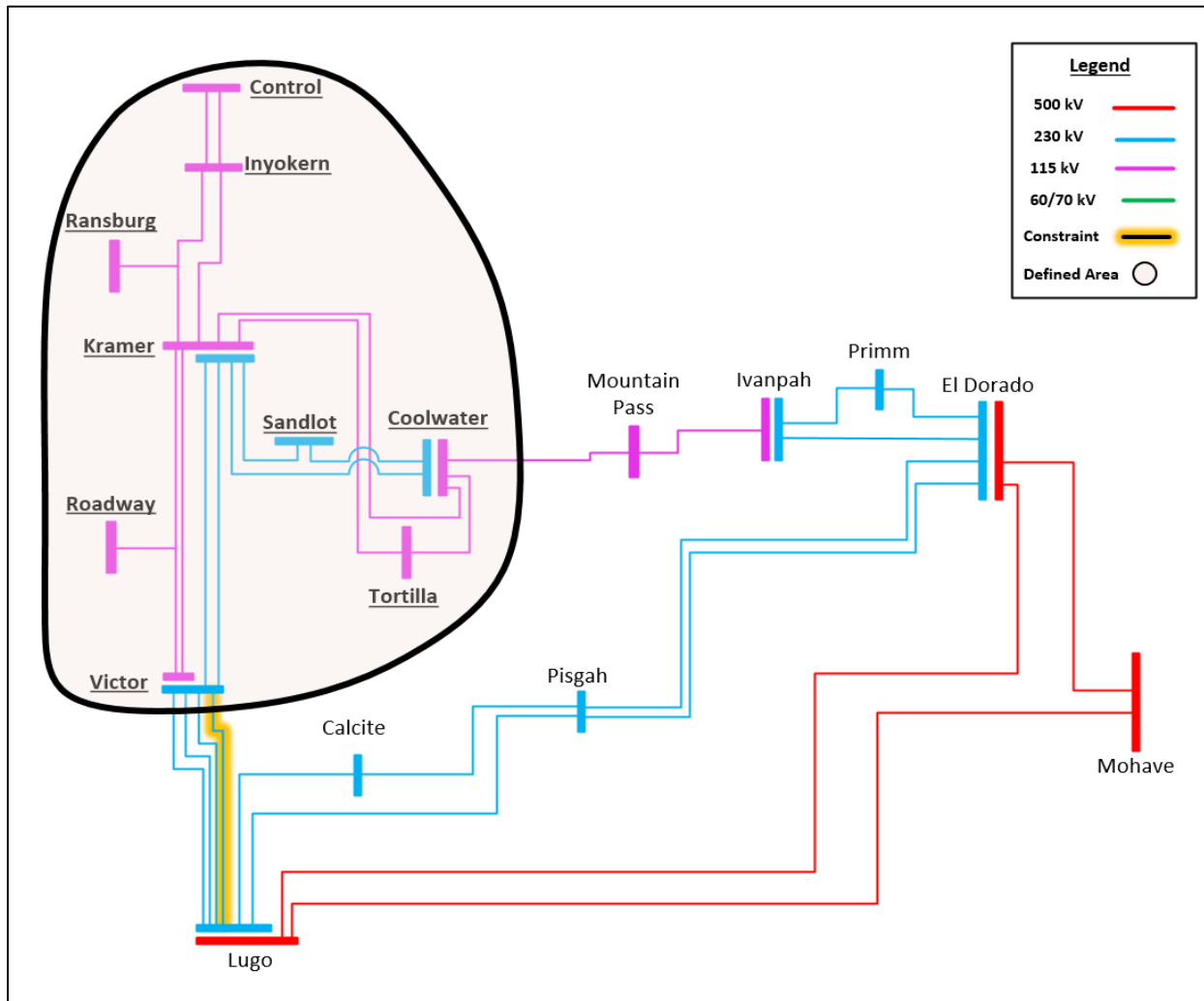
Control to Inyokern Constraint On-Peak Constraint



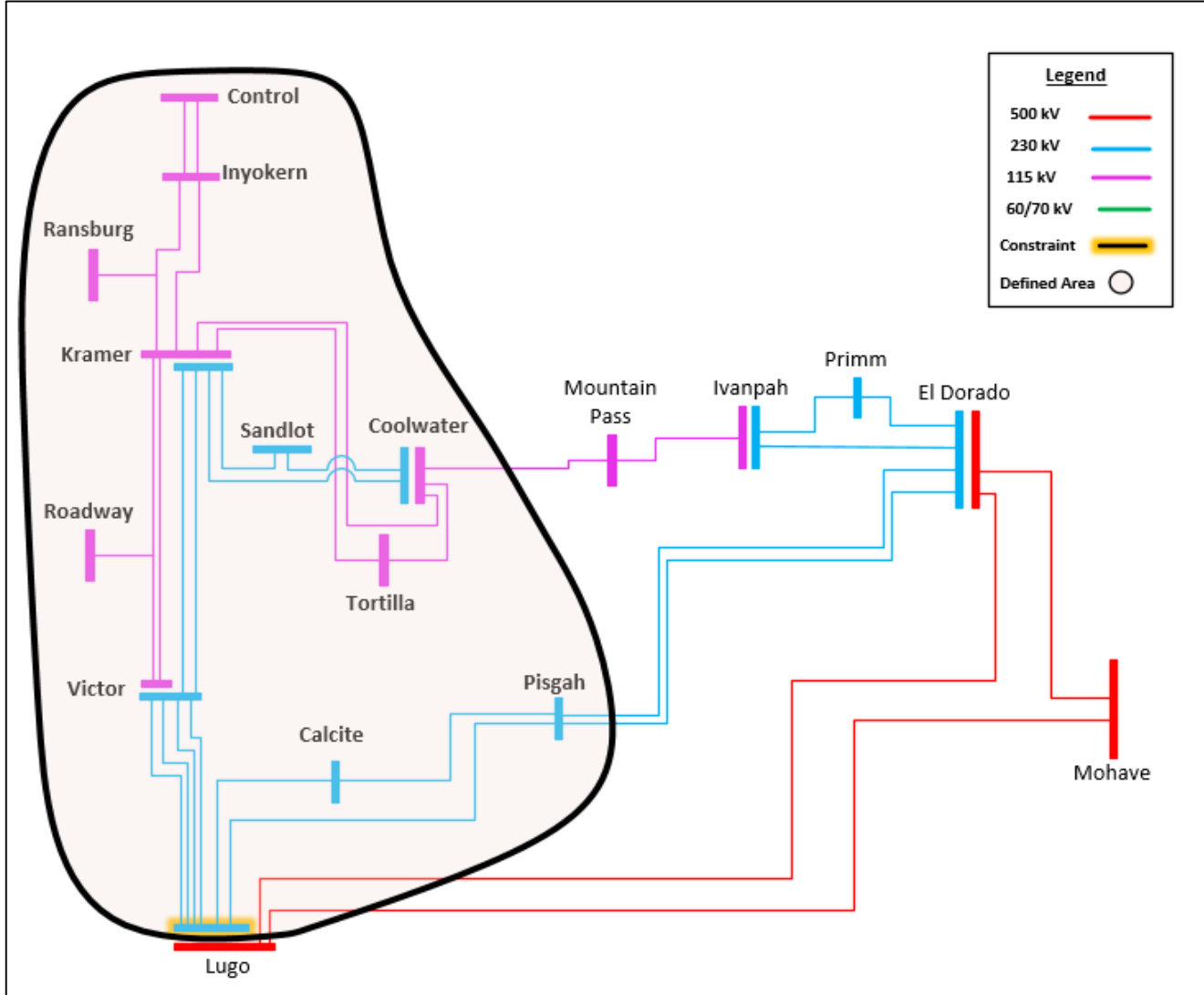
Kramer - Victor Constraint On-Peak Constraint



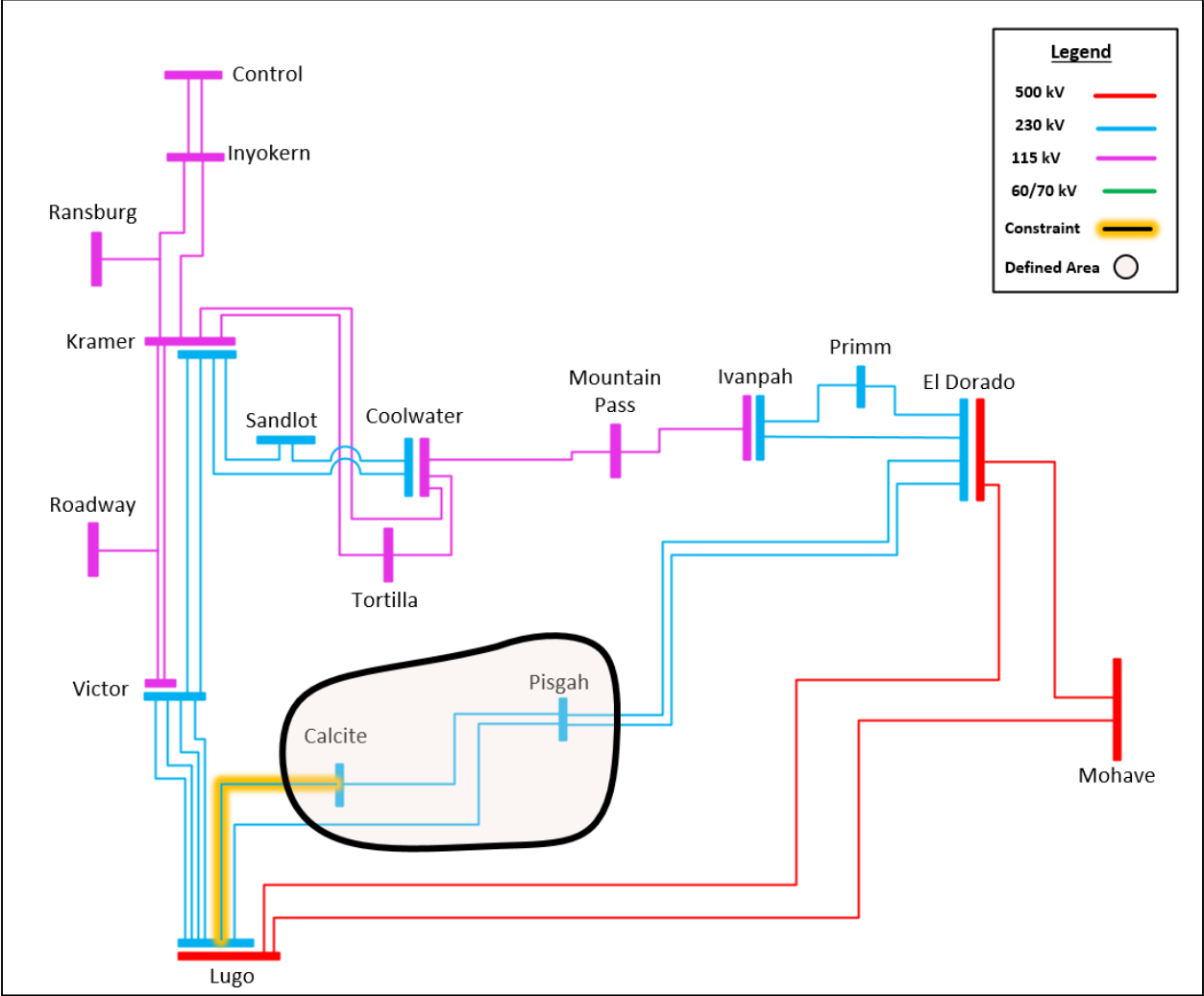
Victor – Lugo Constraint On Peak Constraint



Lugo 500/230 kV Transformer On Peak Constraint

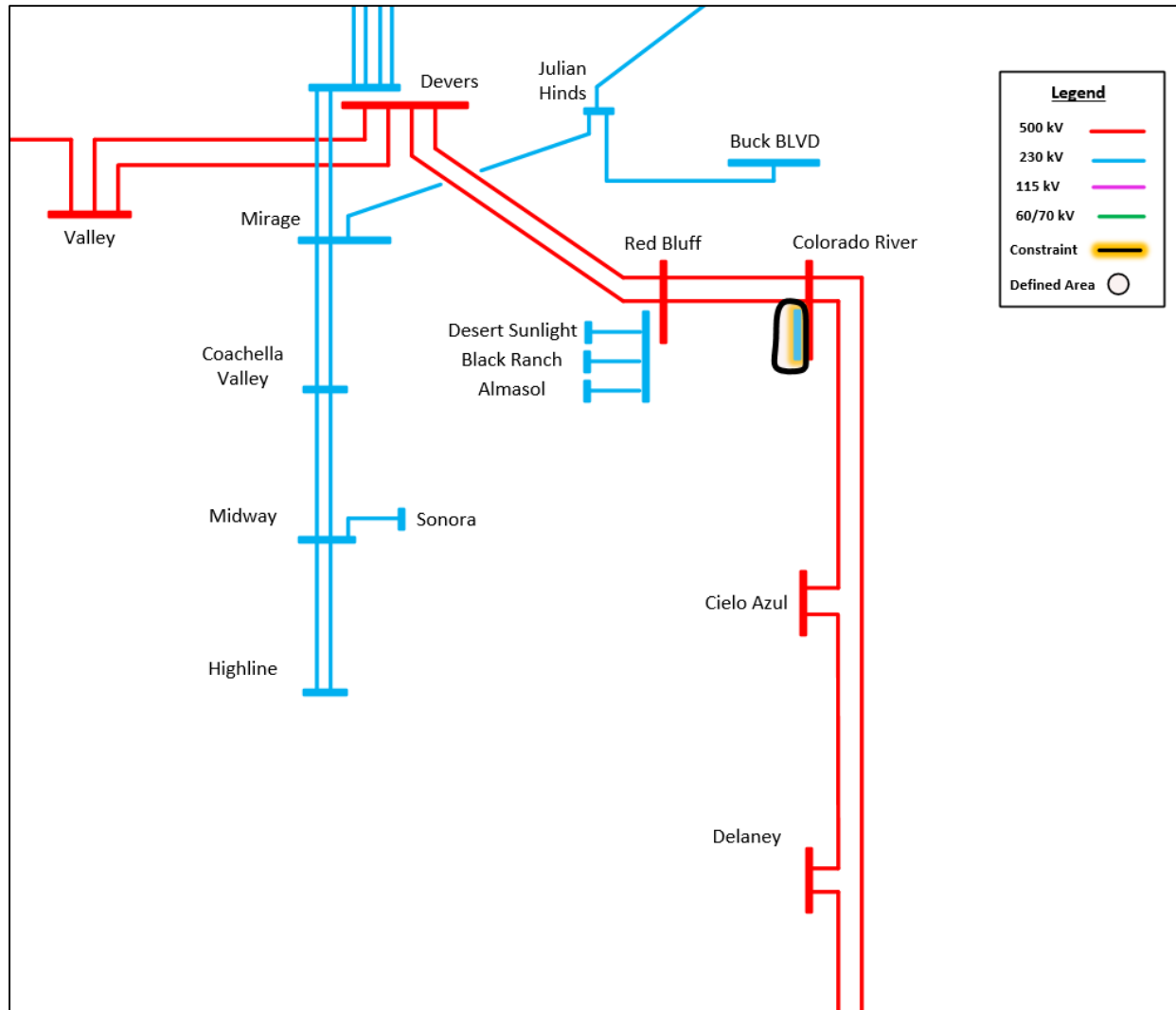


Calcite to Lugo Constraint On Peak Constraint

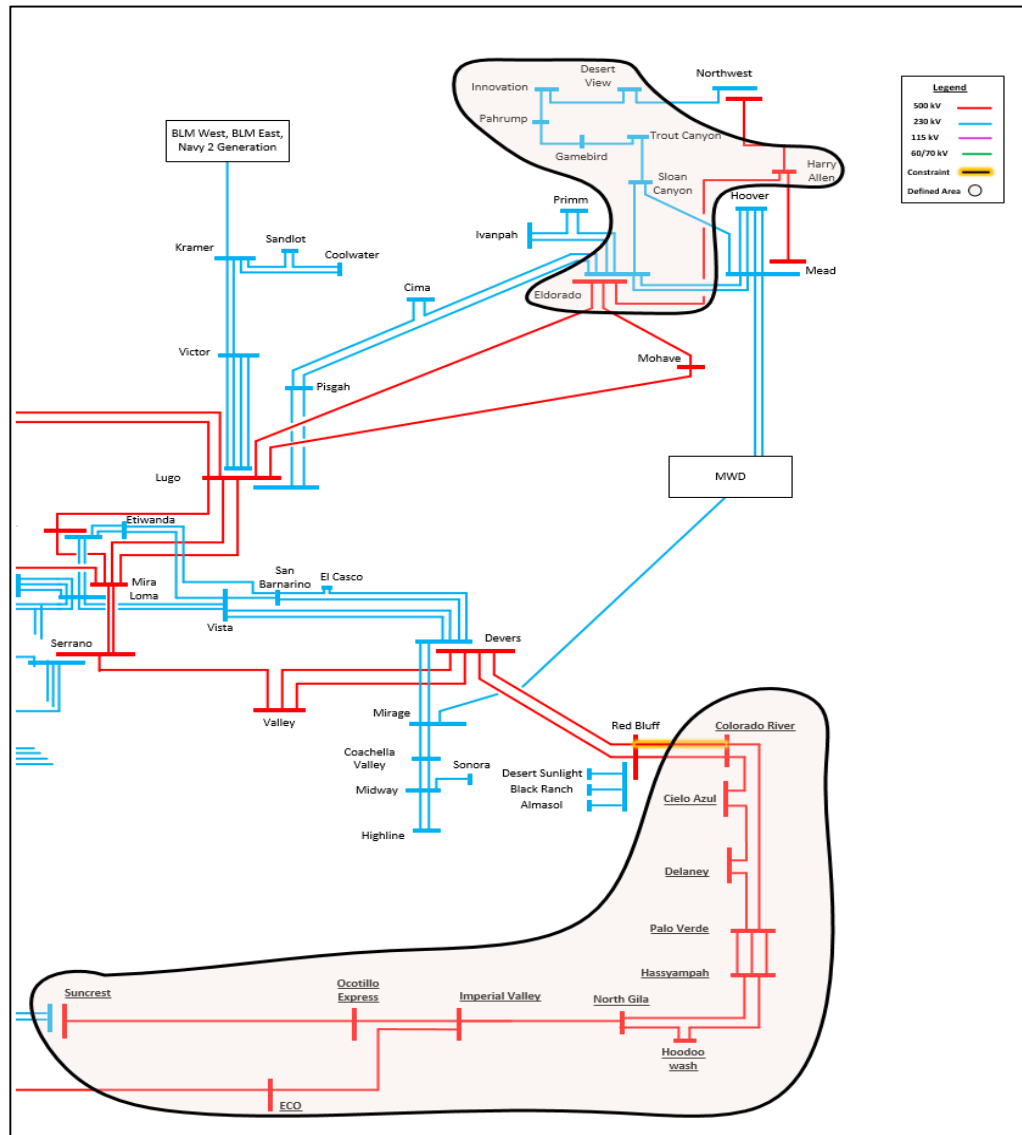


SCE Eastern Interconnection Area Deliverability Constraints

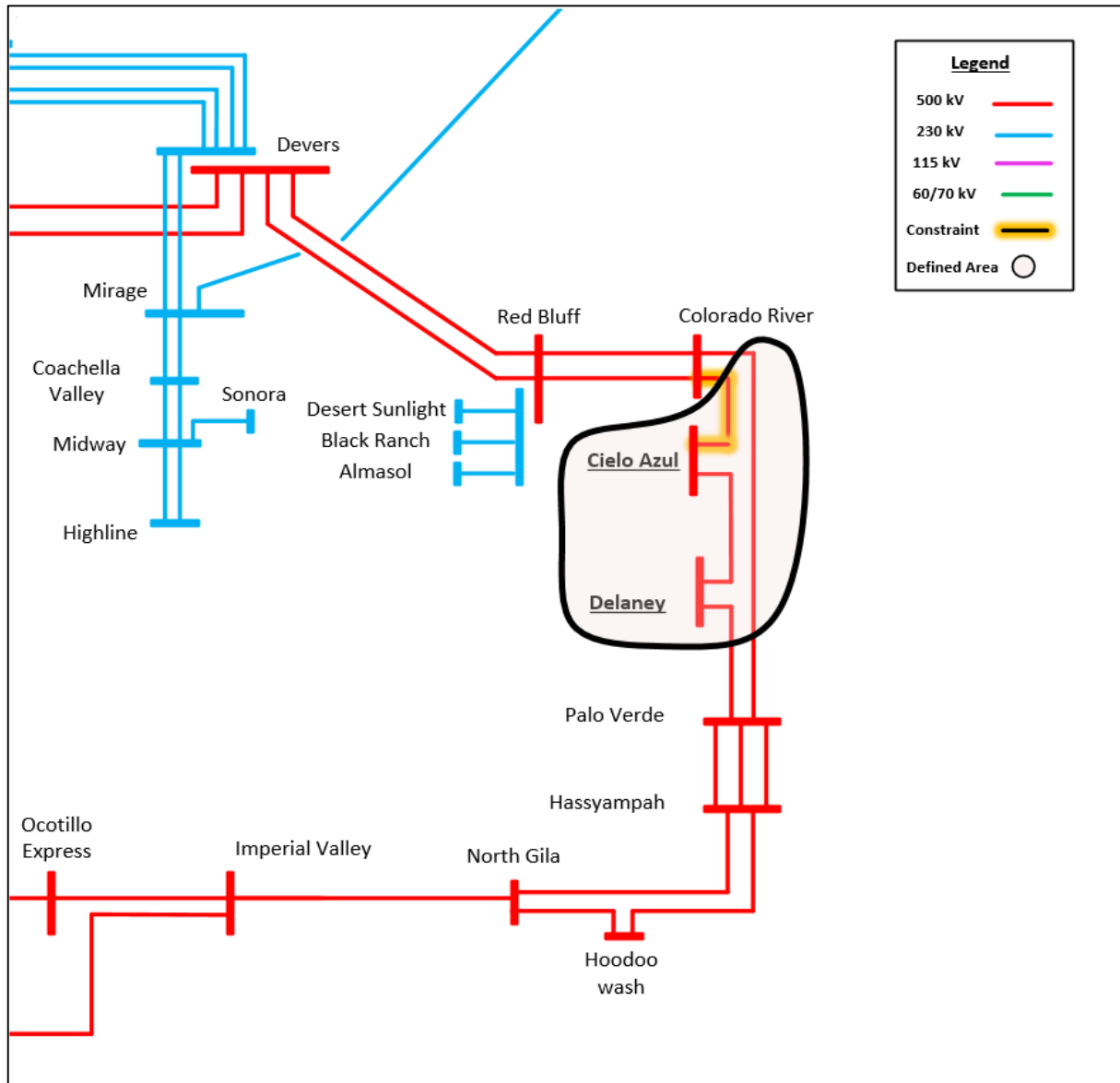
Colorado River 500/230 kV On-Peak/Off-Peak Constraint (230 kV bus only)



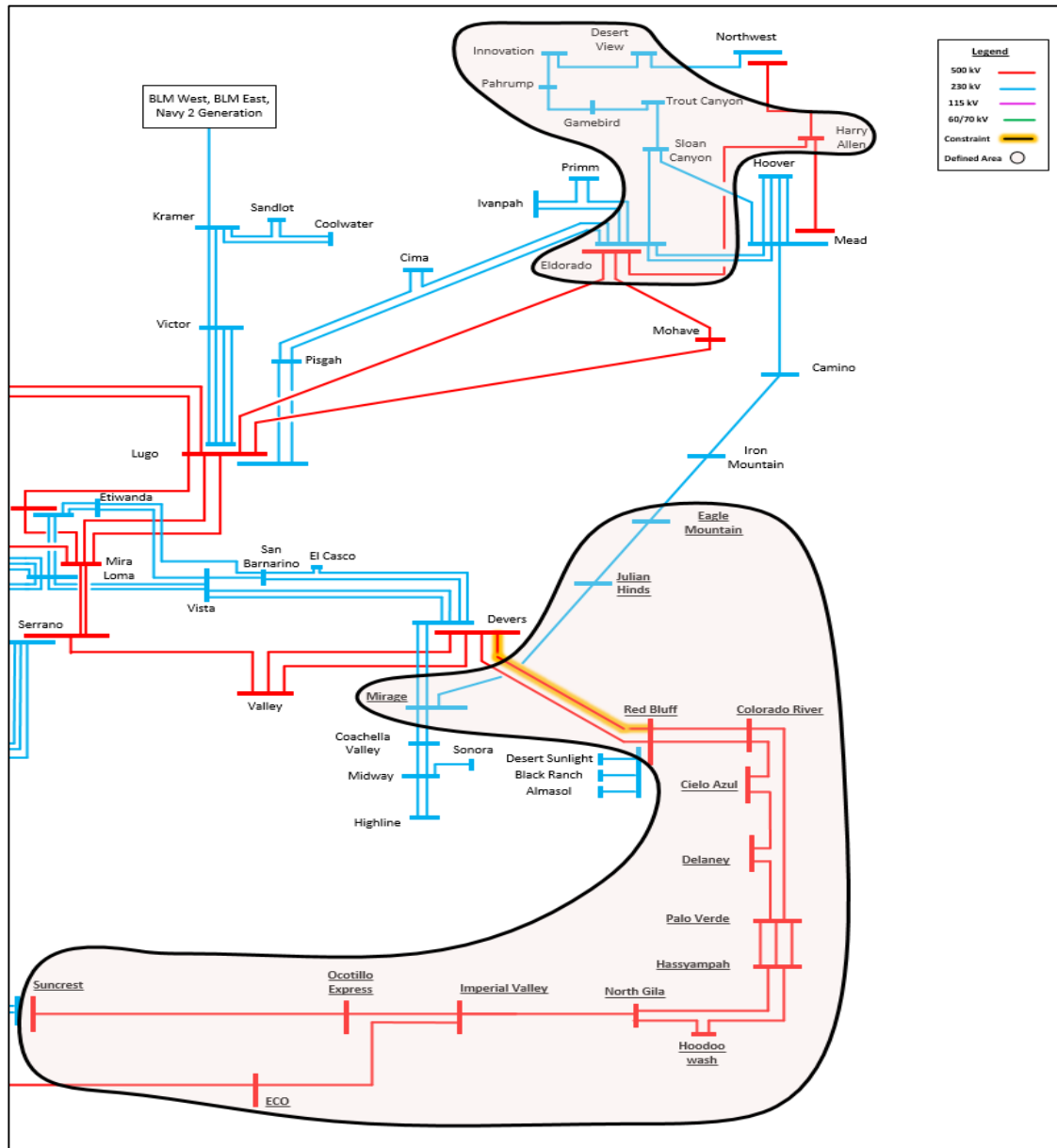
Colorado River-Red Bluff On-Peak Constraint



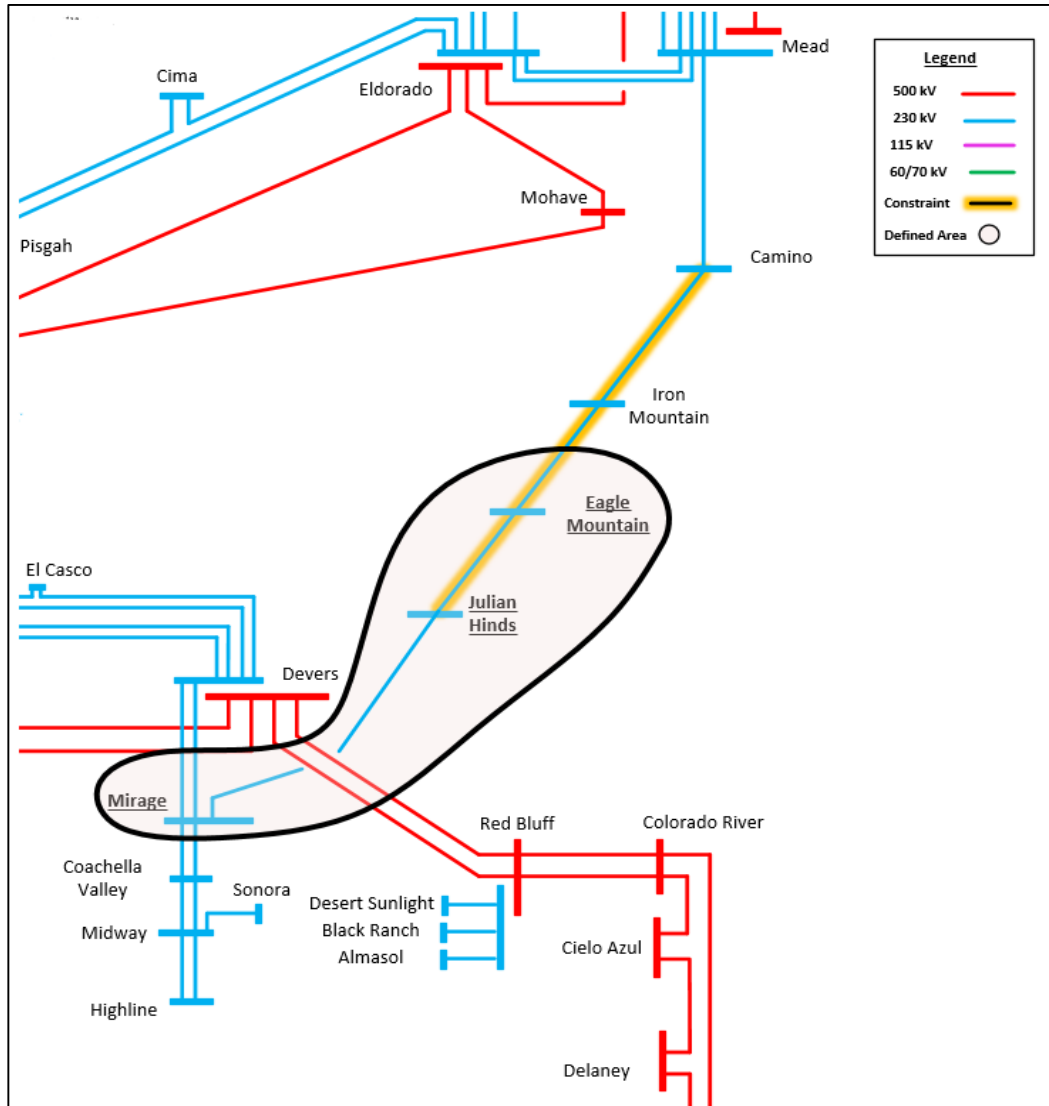
DCRT On-Peak Constraint



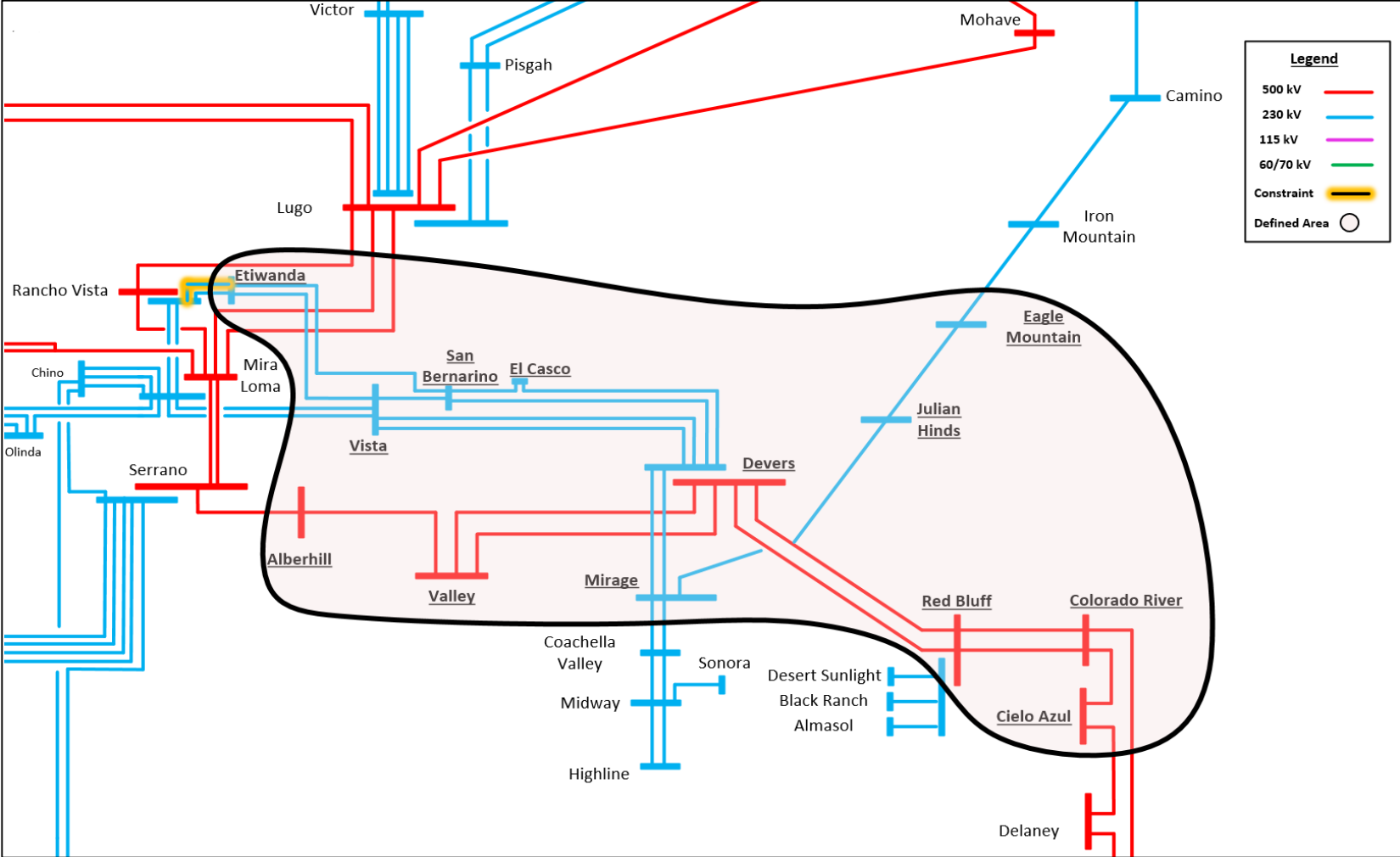
Devers-Red Bluff On-Peak/Off-Peak Constraint



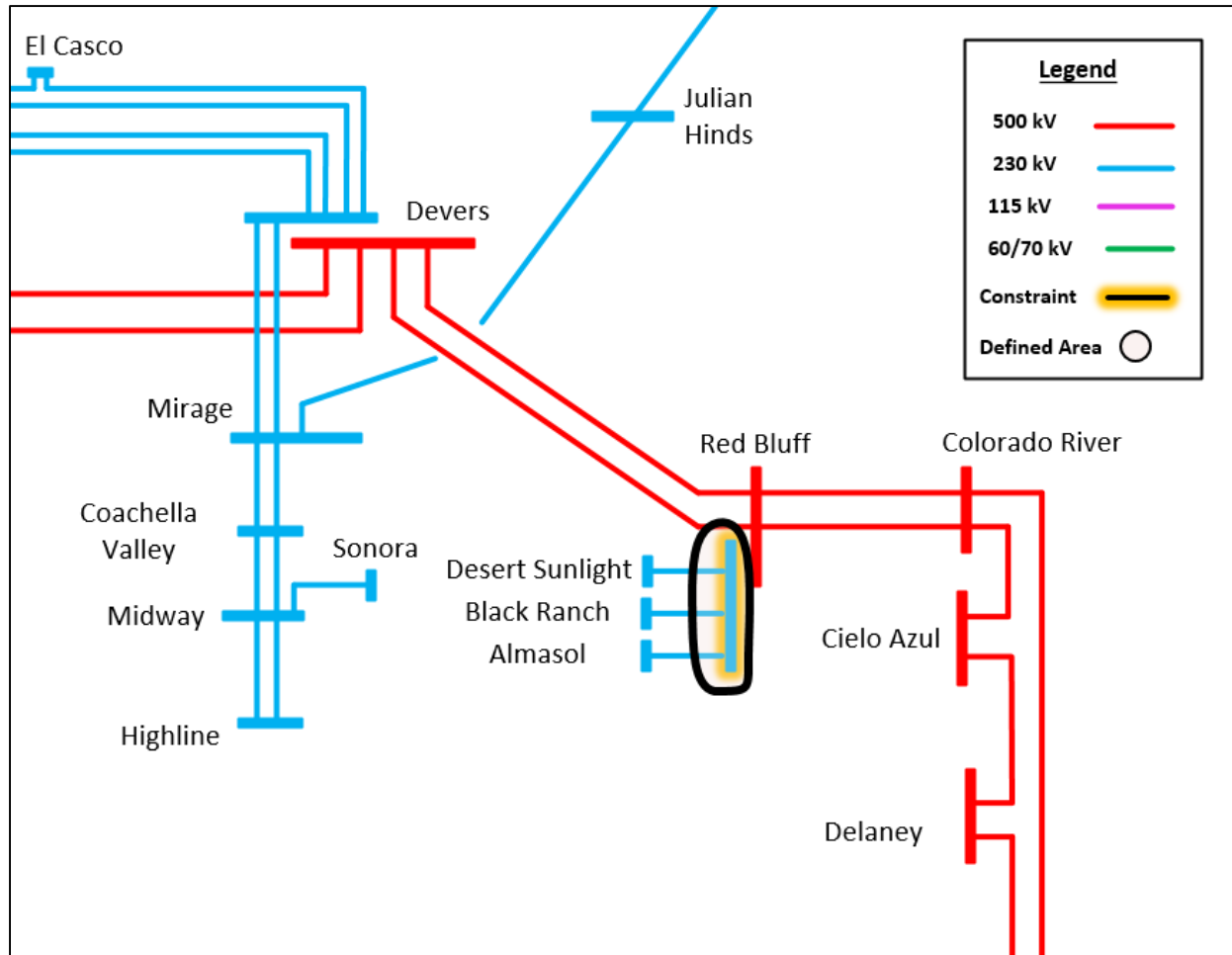
Eagle Mountain On-Peak Constraint



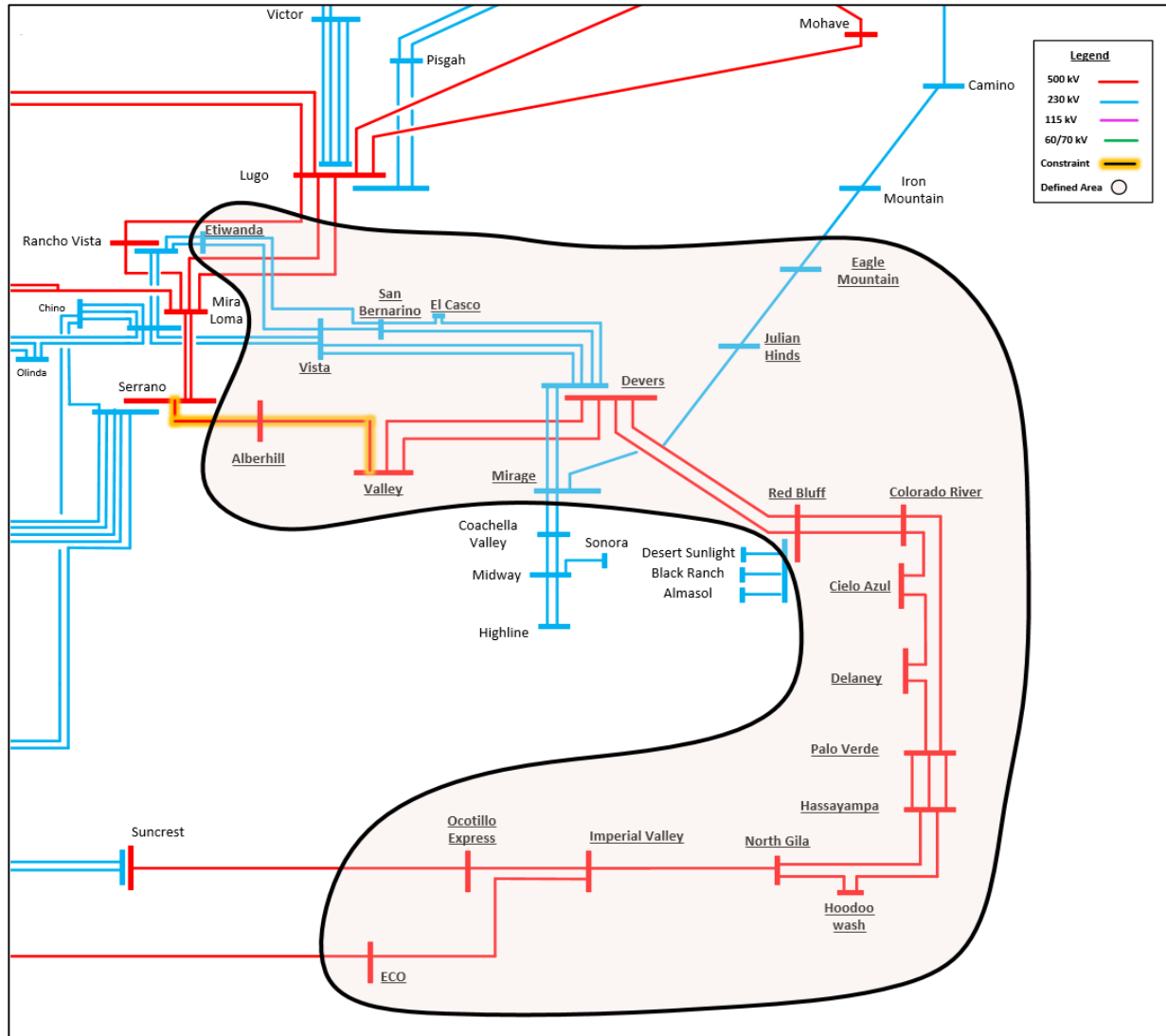
Etiwanda-Rancho Vista On-Peak Constraint



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

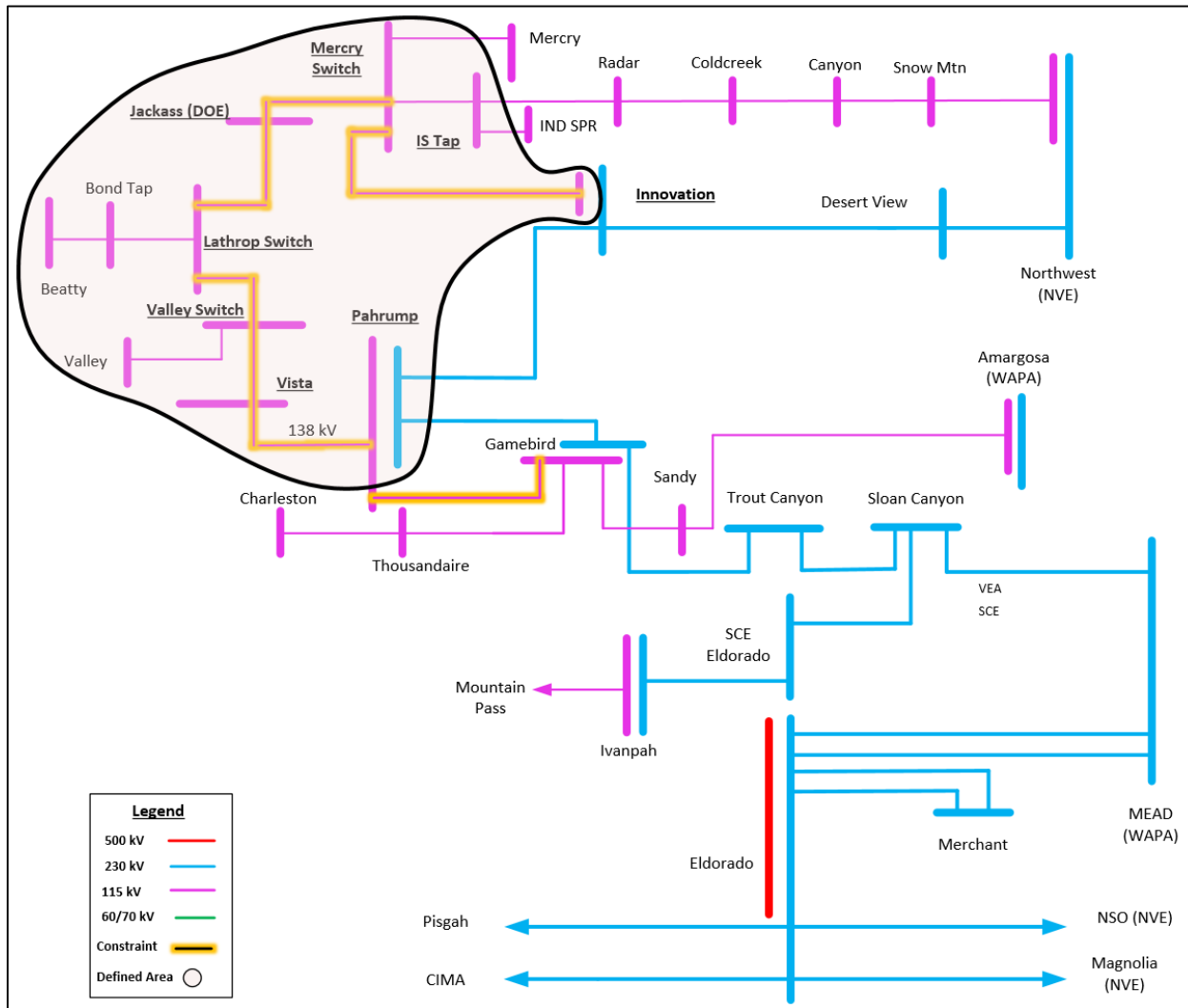


Serrano-Alberhill-Valley On-Peak/Off-Peak Constraint

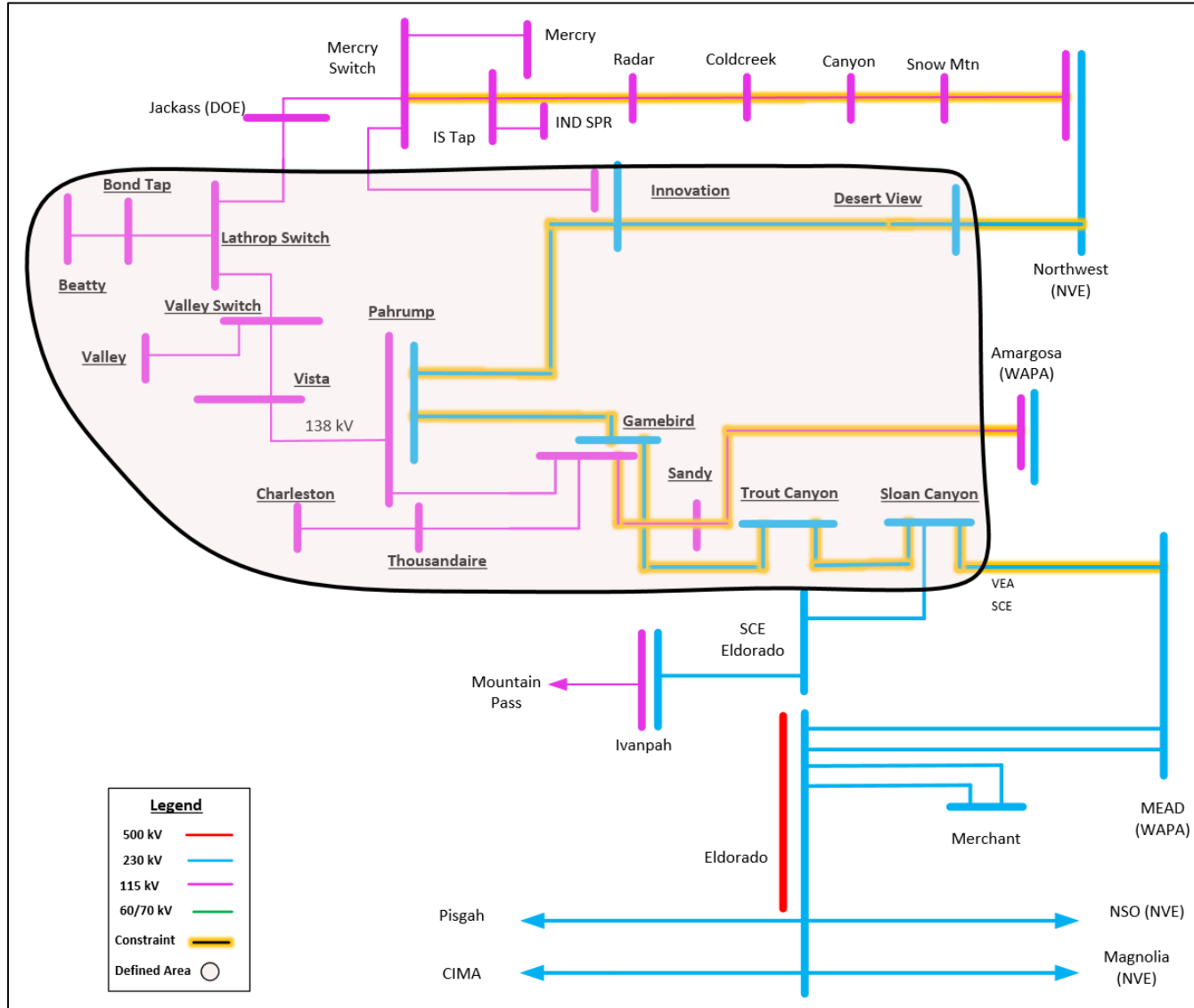


East of Pisgah Interconnection Area Deliverability Constraints

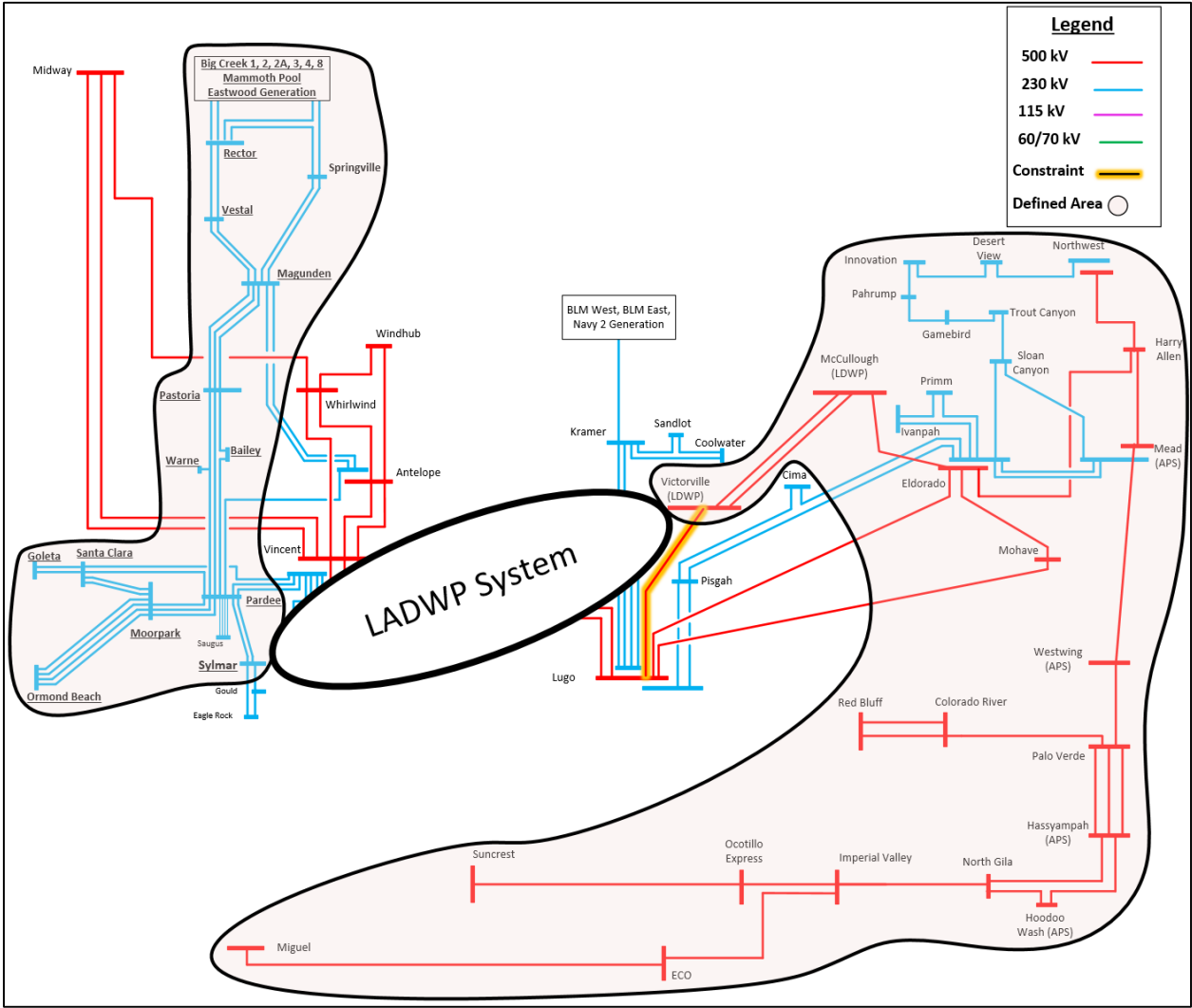
VEA 138kV On-peak/Off-peak Constraint



GLW 230kV On-peak/Off-peak Constraint



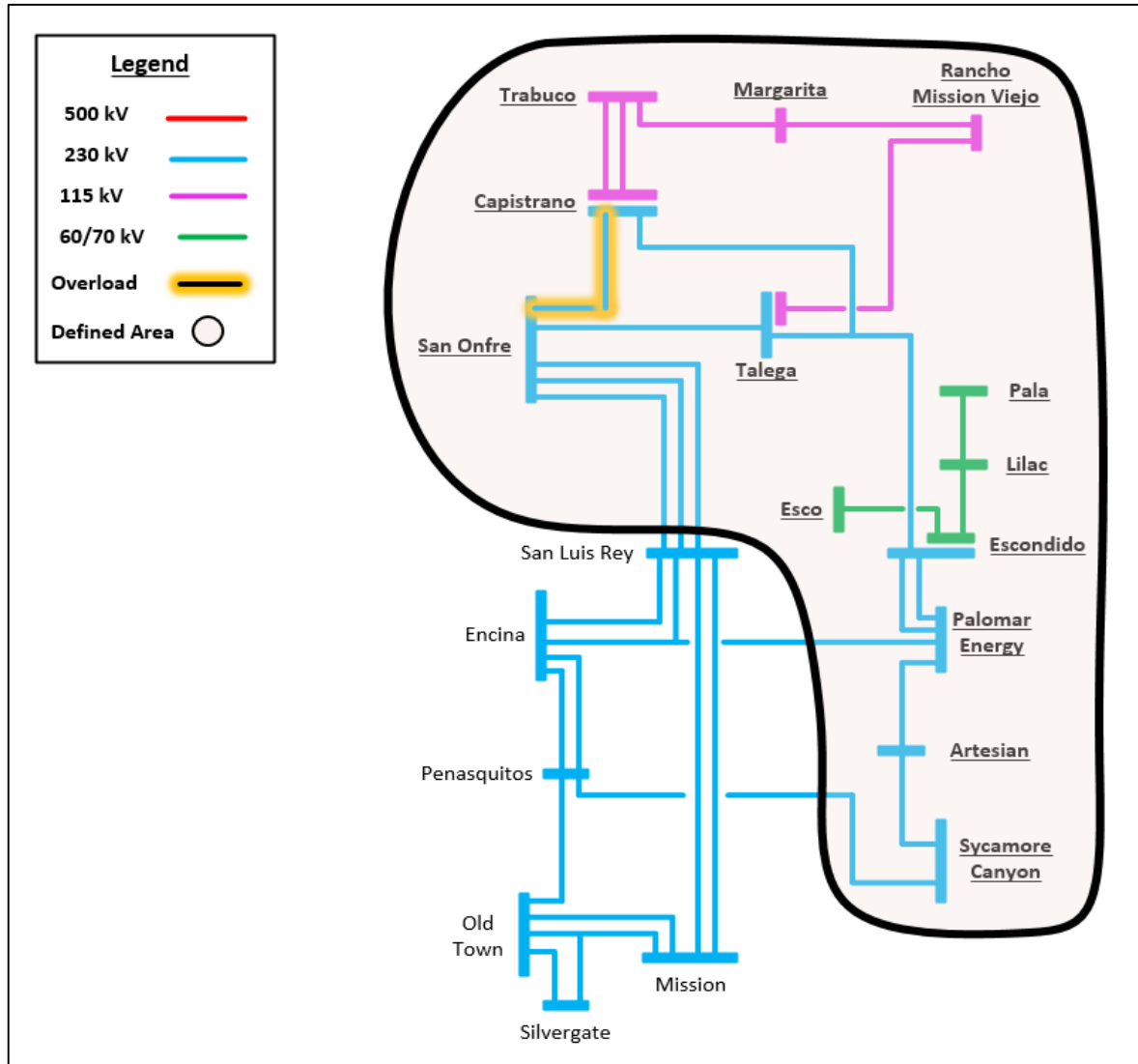
Lugo-Victorville On-peak Constraint



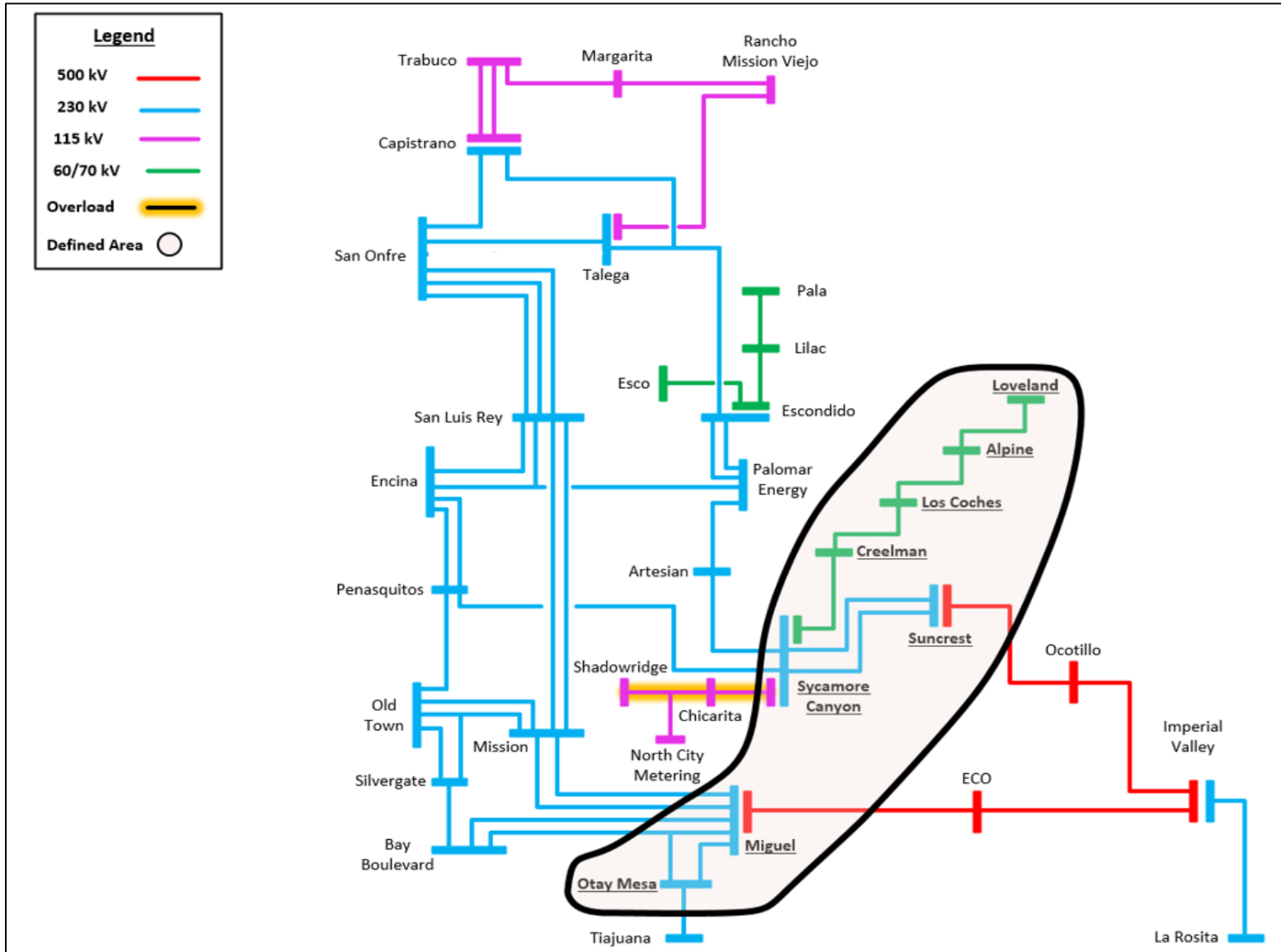
Note: The GLW/VEA system, which is not shown in detail, is inside the constraint boundary.

SDG&E Interconnection Area Deliverability Constraints

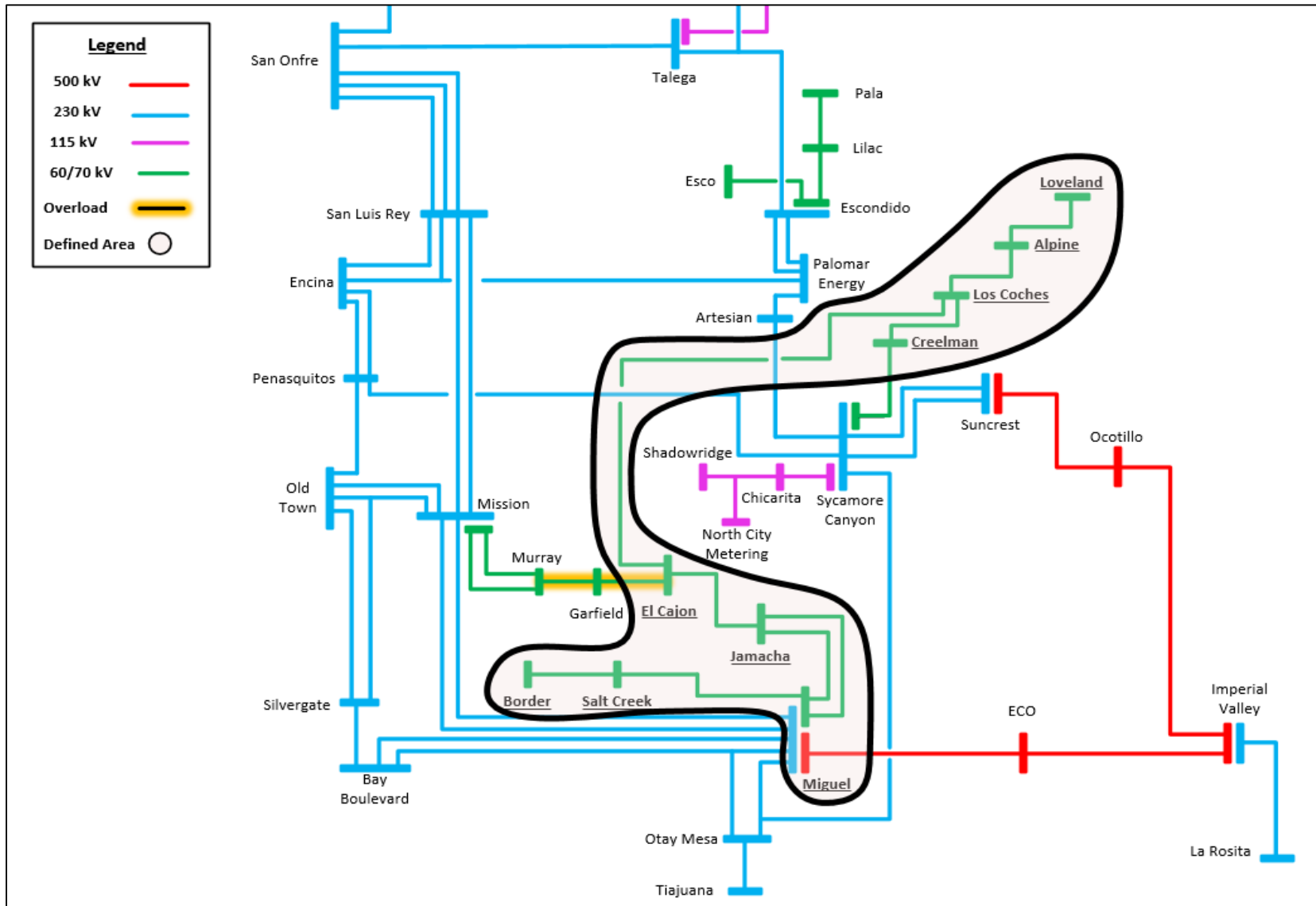
Capistrano-San Onofre 230 kV On-Peak Constraint



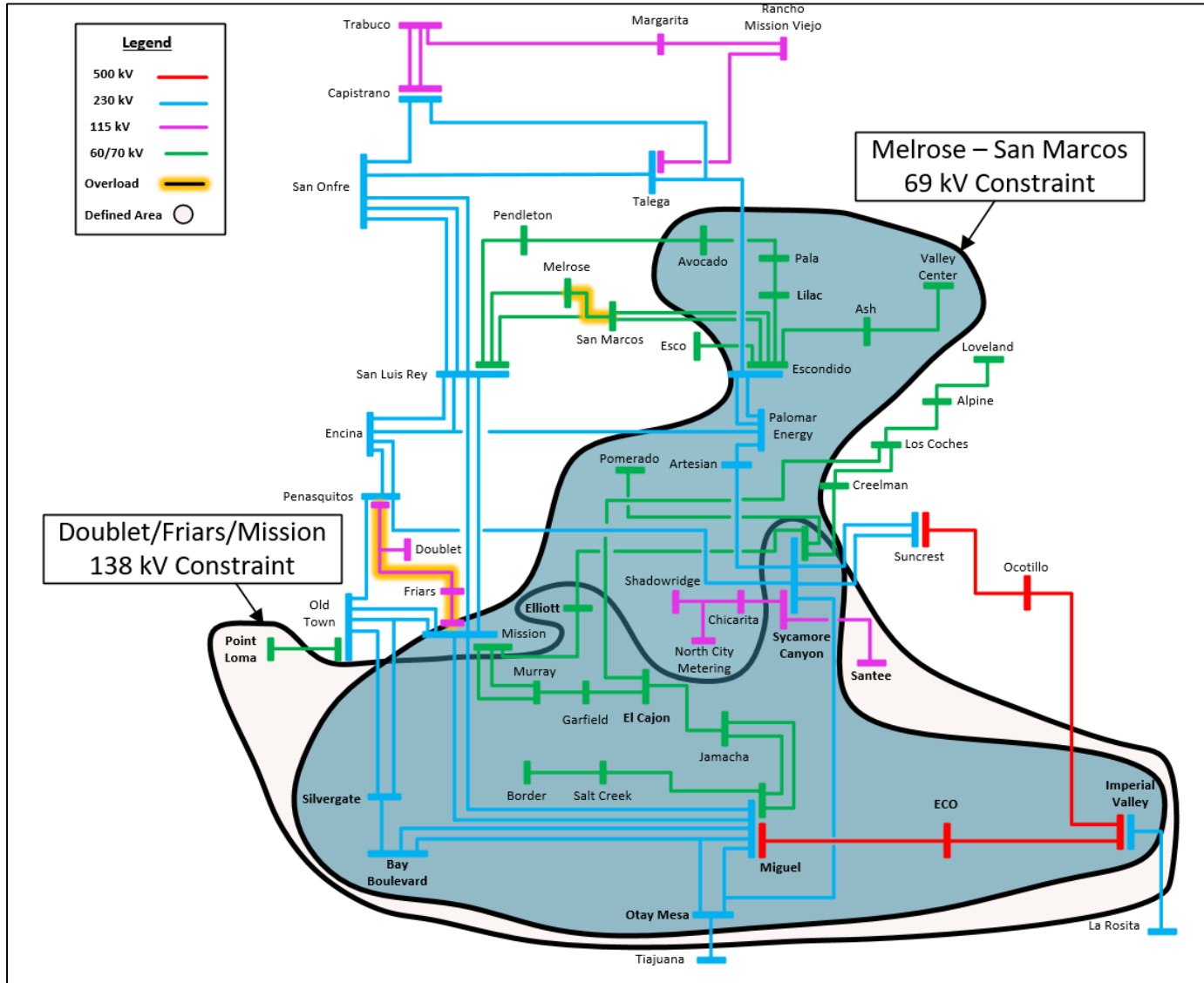
Chicarita 138 kV On-Peak Constraint



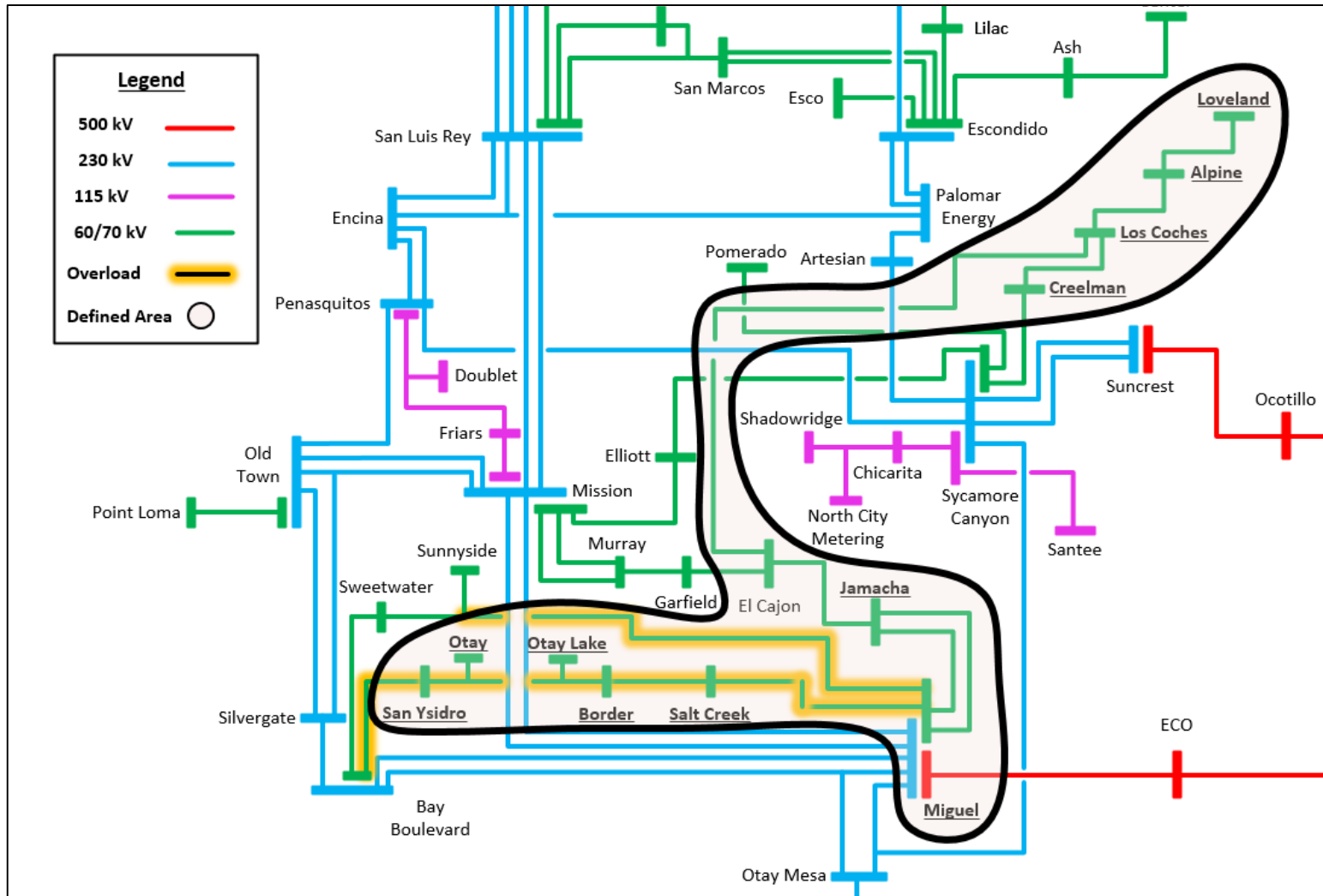
El Cajon 69 kV On-Peak Constraint



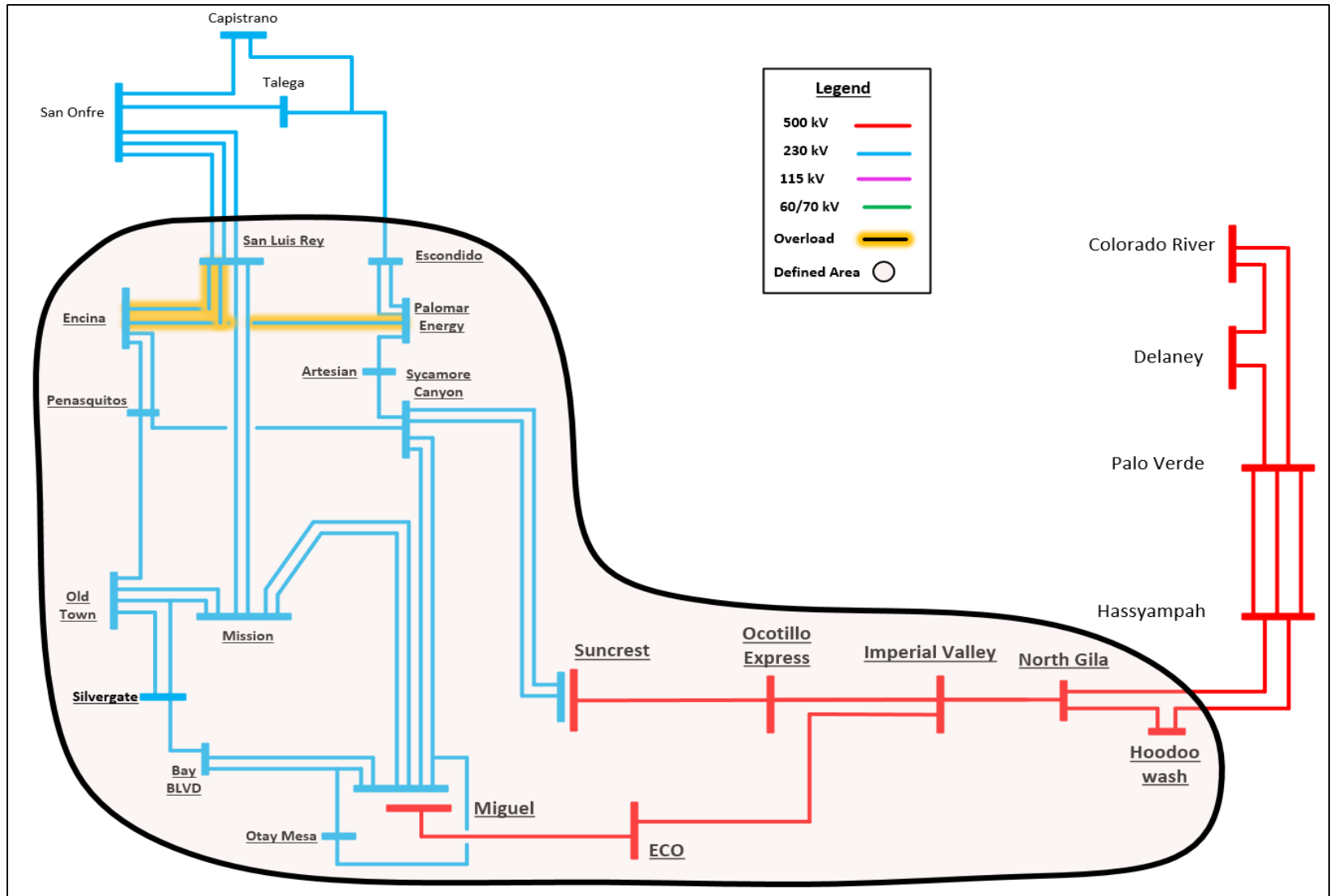
Internal San Diego Area On-Peak/Off-Peak Constraint



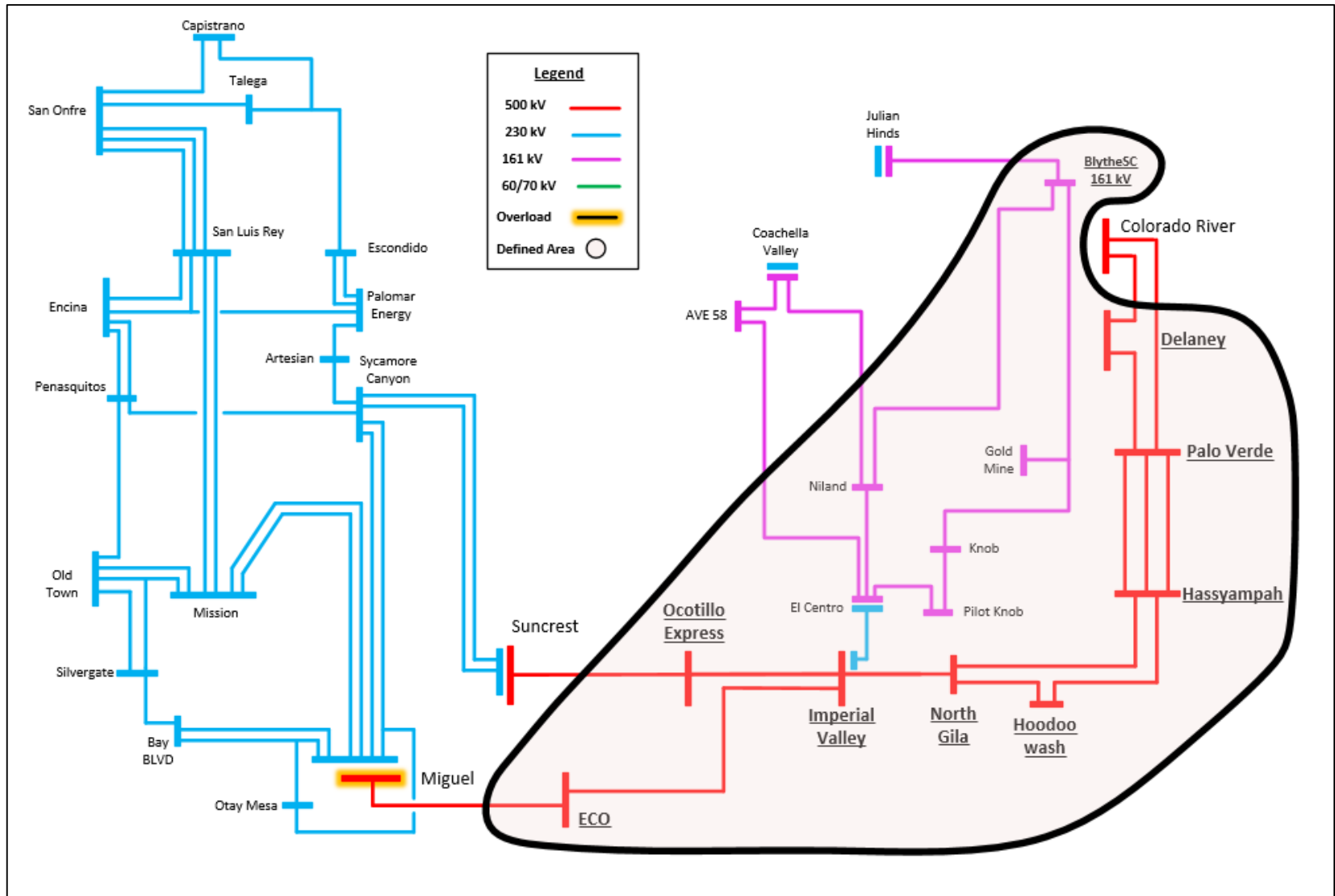
Miguel 69 kV On-Peak Constraint



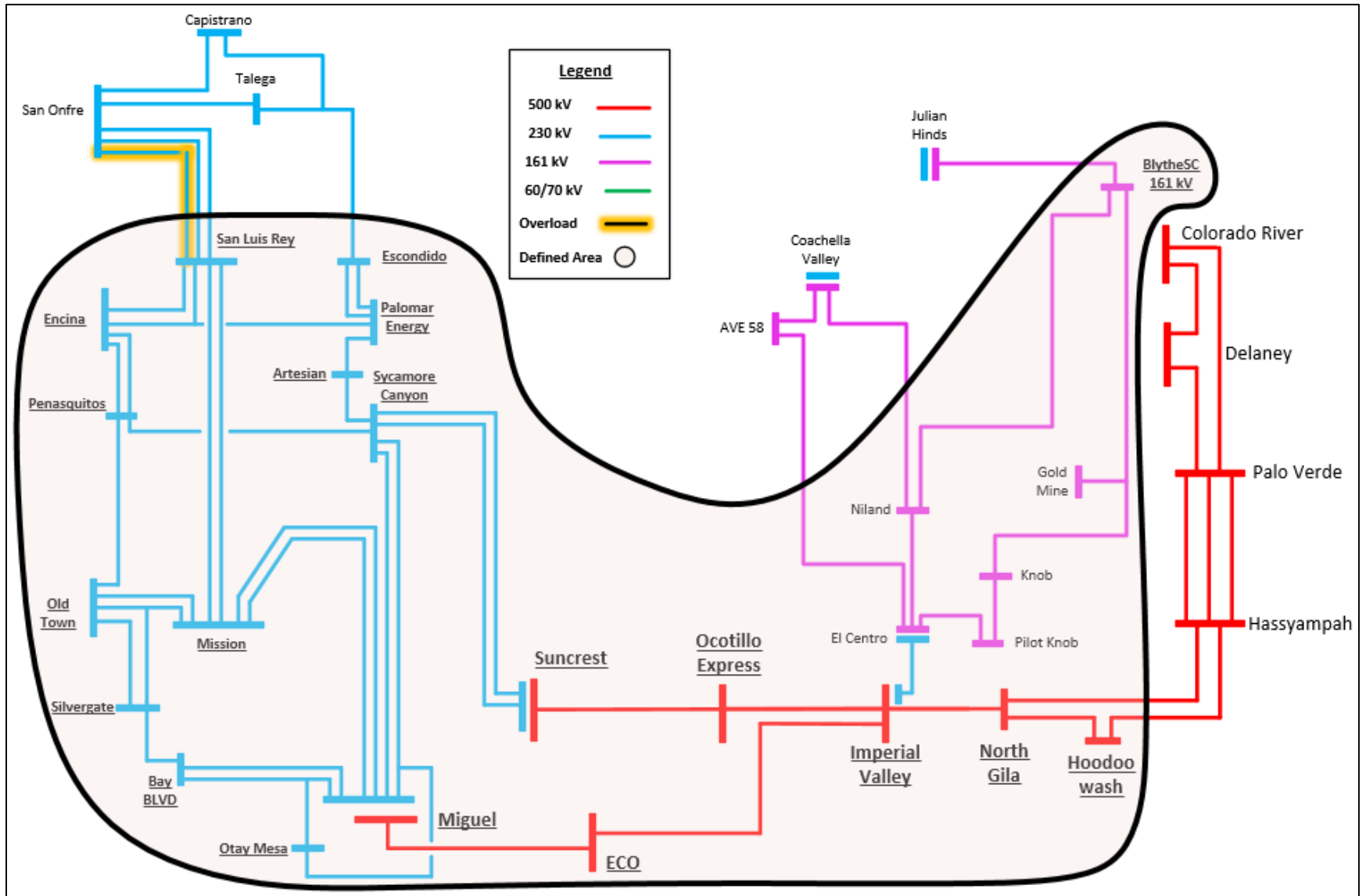
Encina - San Luis Rey 230 kV On-Peak/Off-Peak Constraint



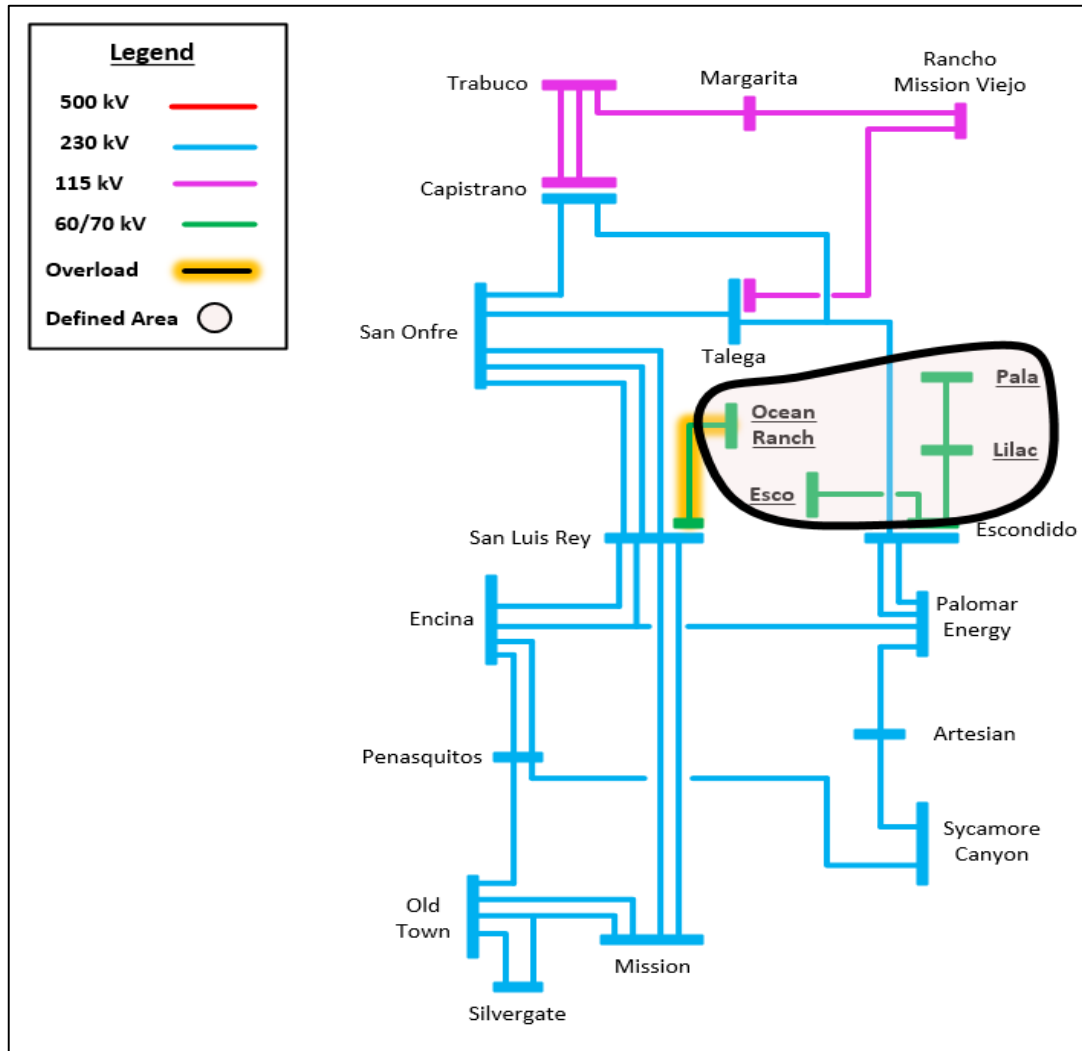
East of Miguel On-Peak/Off-Peak Constraint



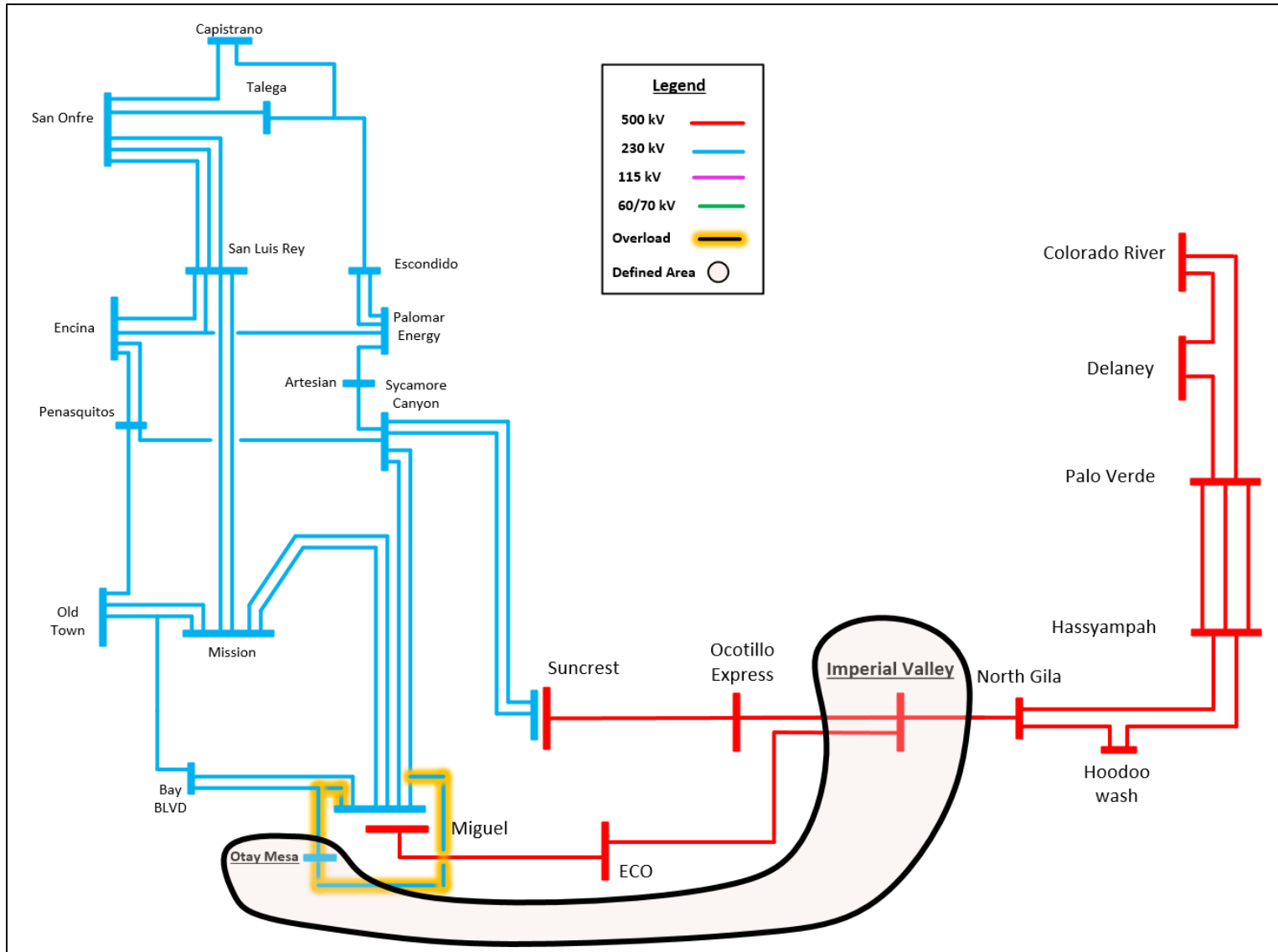
San Luis Rey-San Onofre 230 kV On-Peak/Off-Peak Constraint



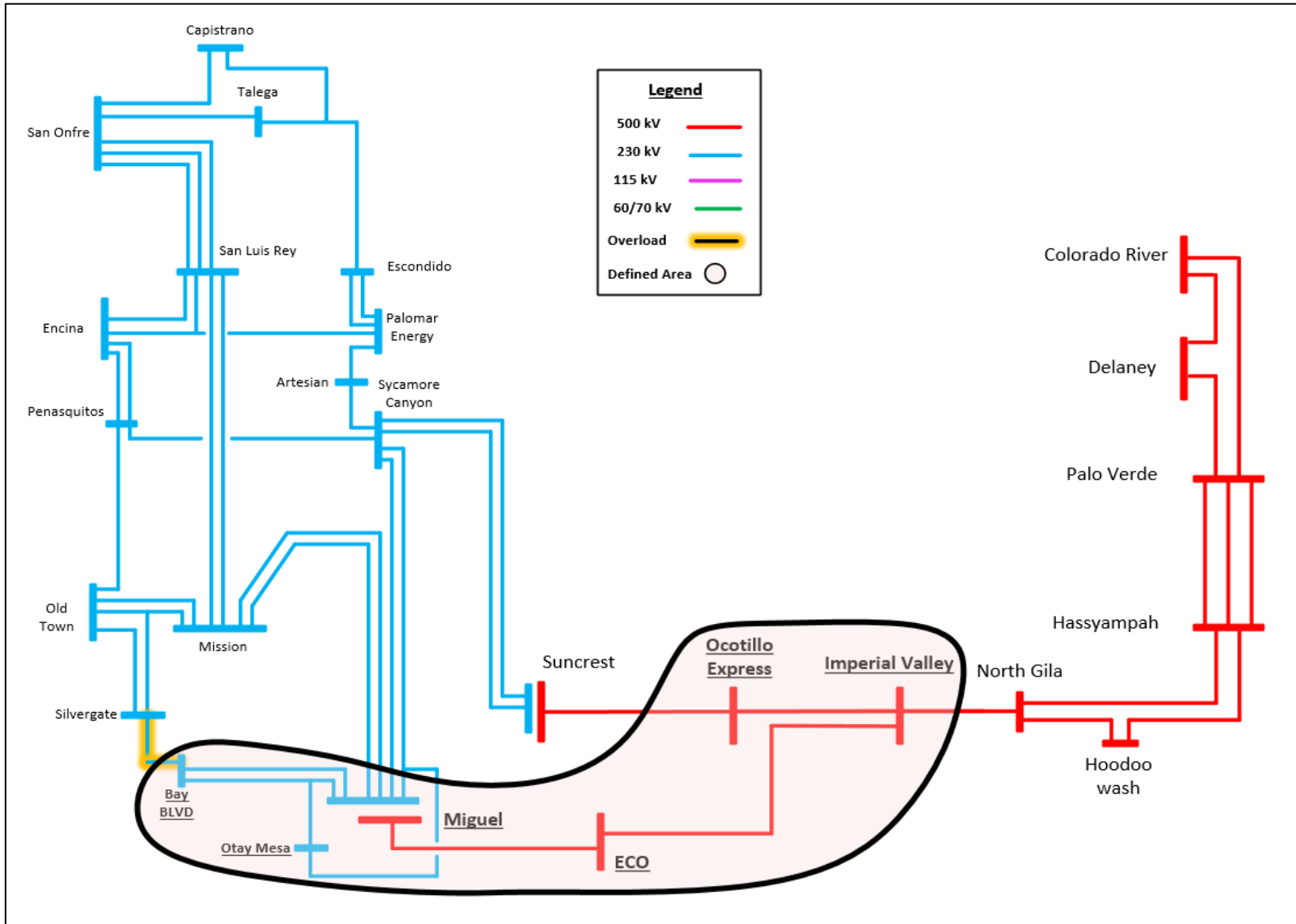
Ocean Ranch 69 kV On-Peak Constraint



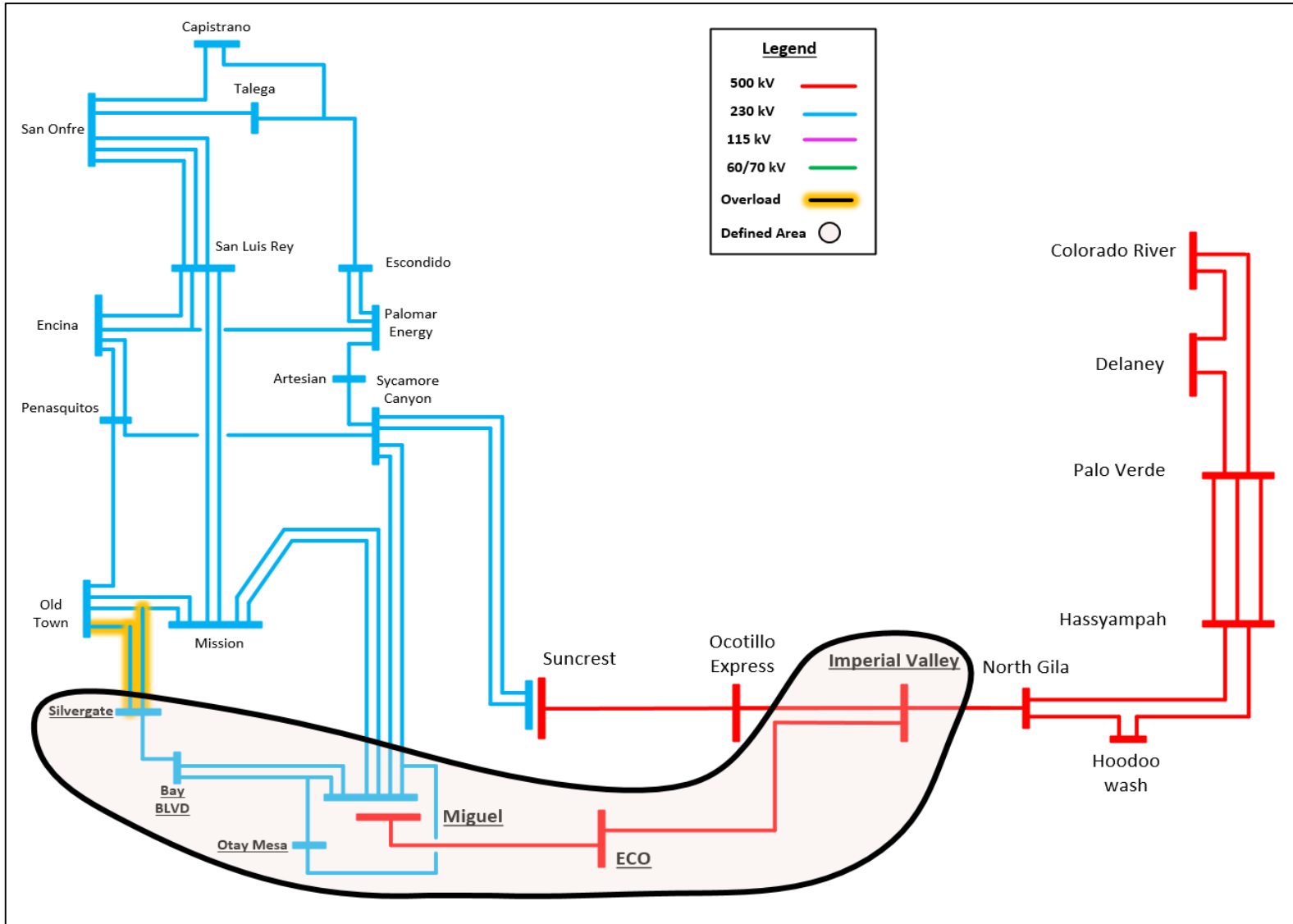
Otay Mesa 230 kV On-Peak Constraint



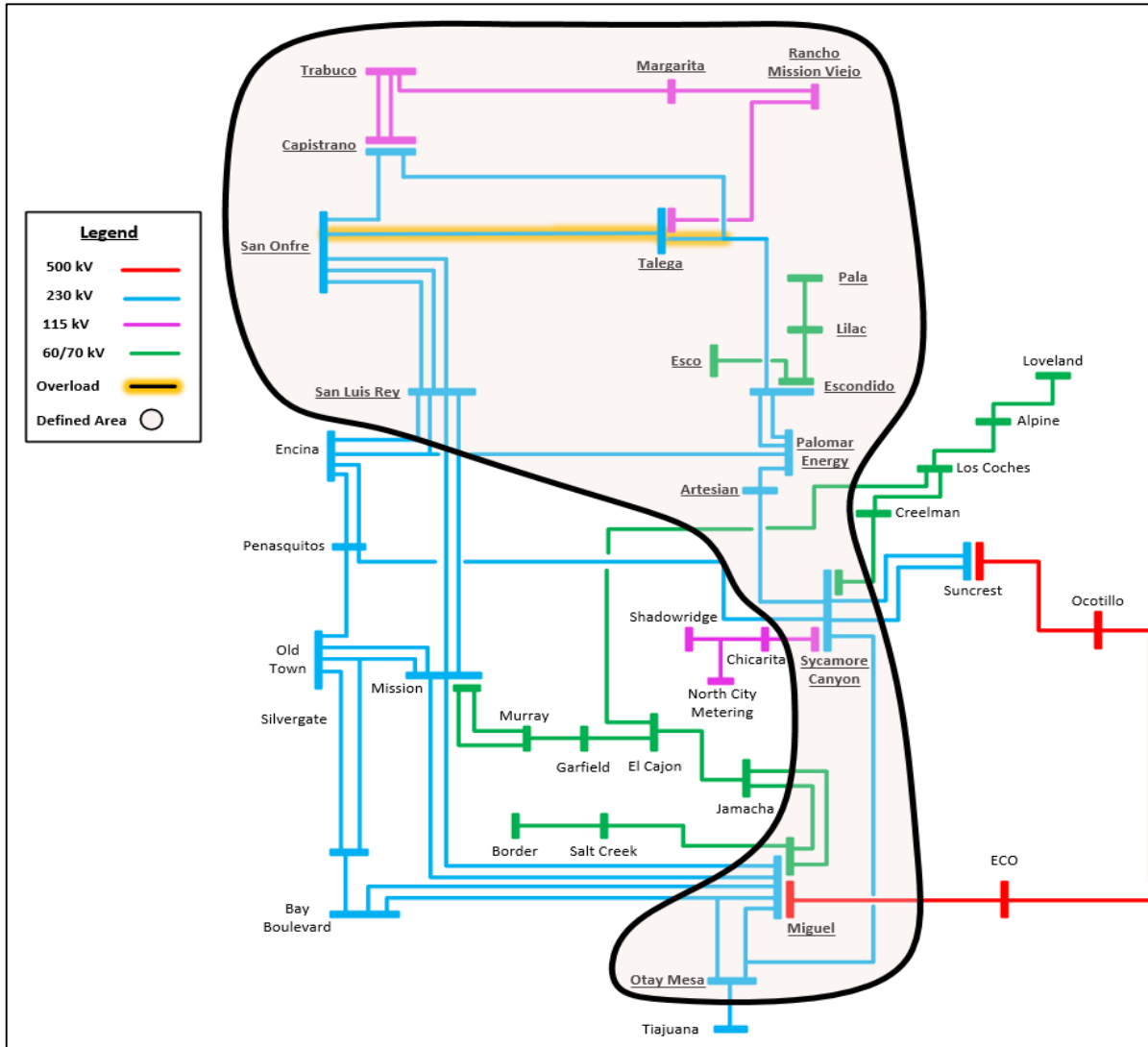
Silvergate - Bay Blvd 230 kV On-Peak/Off-Peak Constraint



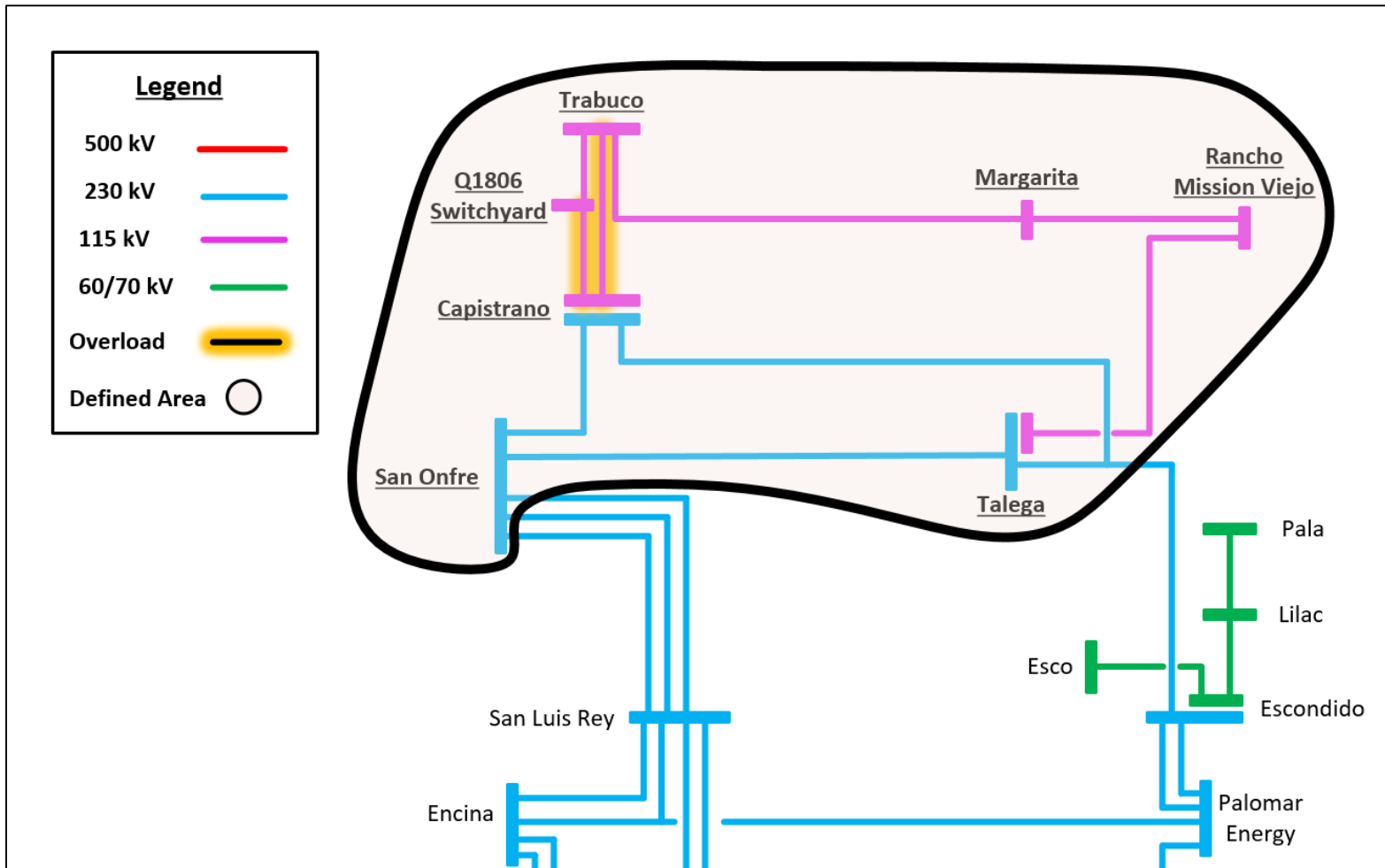
Silvergate-Old Town 230 kV On-Peak Constraint



Talega 230 kV On-Peak Constraint

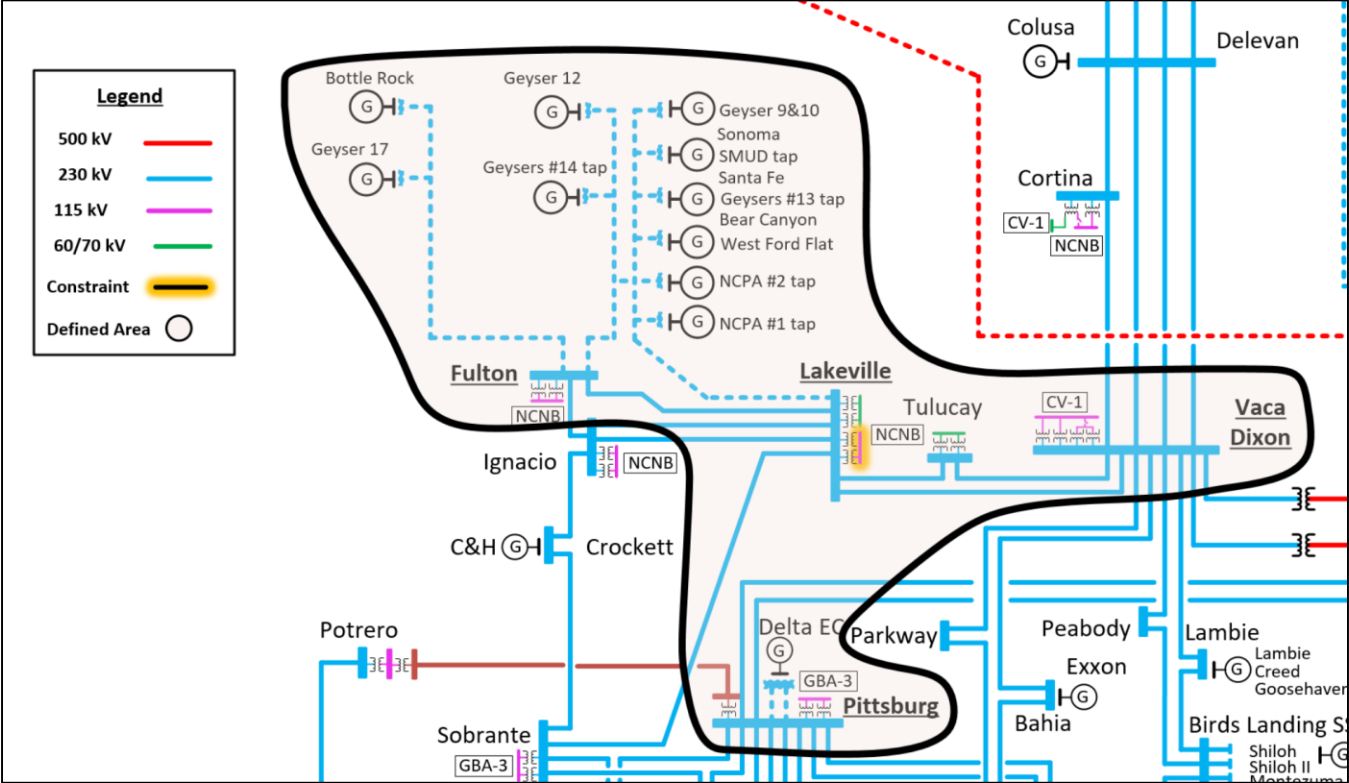


Trabuco-Capistrano 138 kV On-Peak Constraint

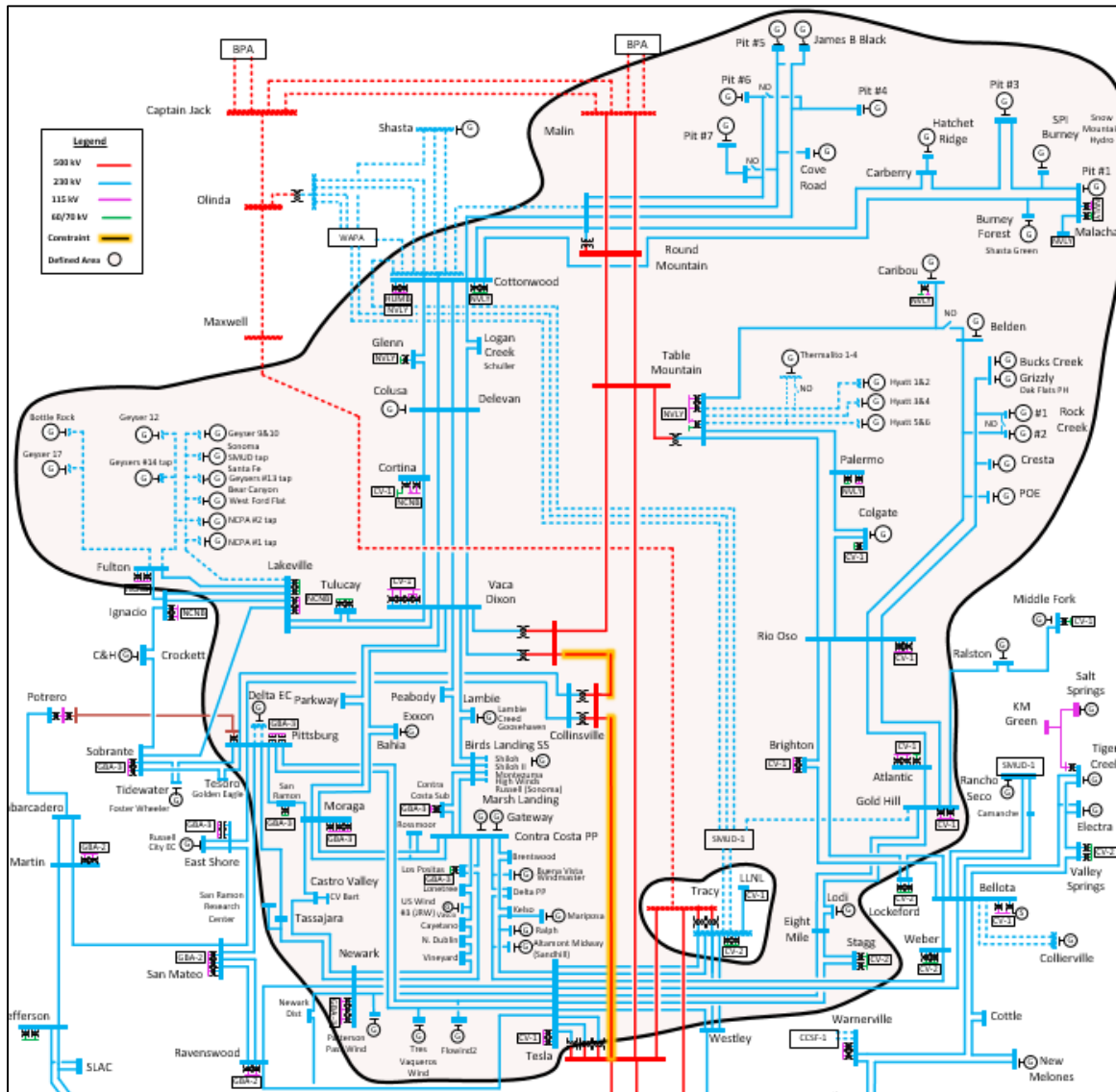


PG&E North of Greater Bay Interconnection Area Deliverability Constraints

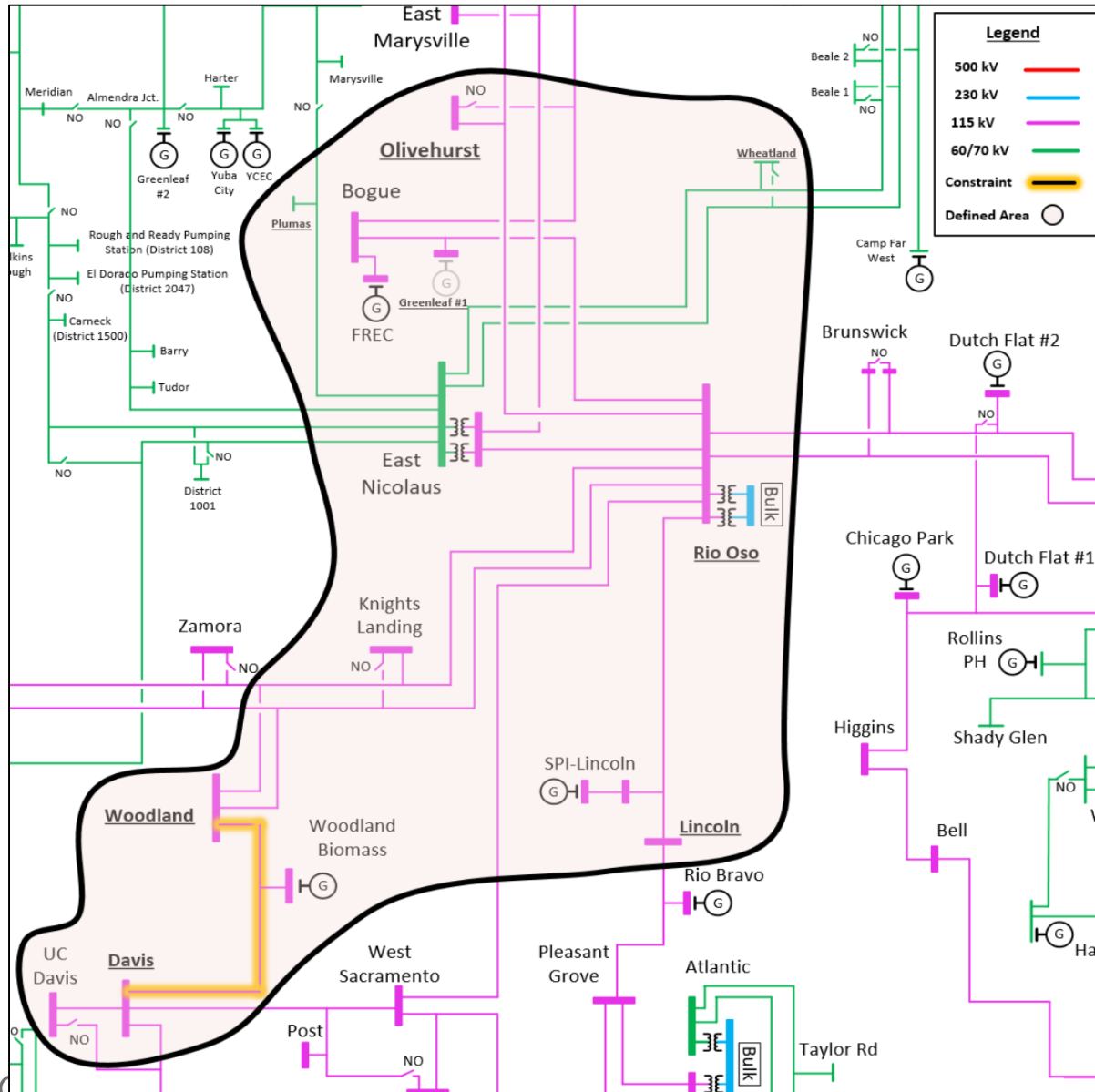
Santa Rosa-Corona 115 kV line On-Peak Constraint



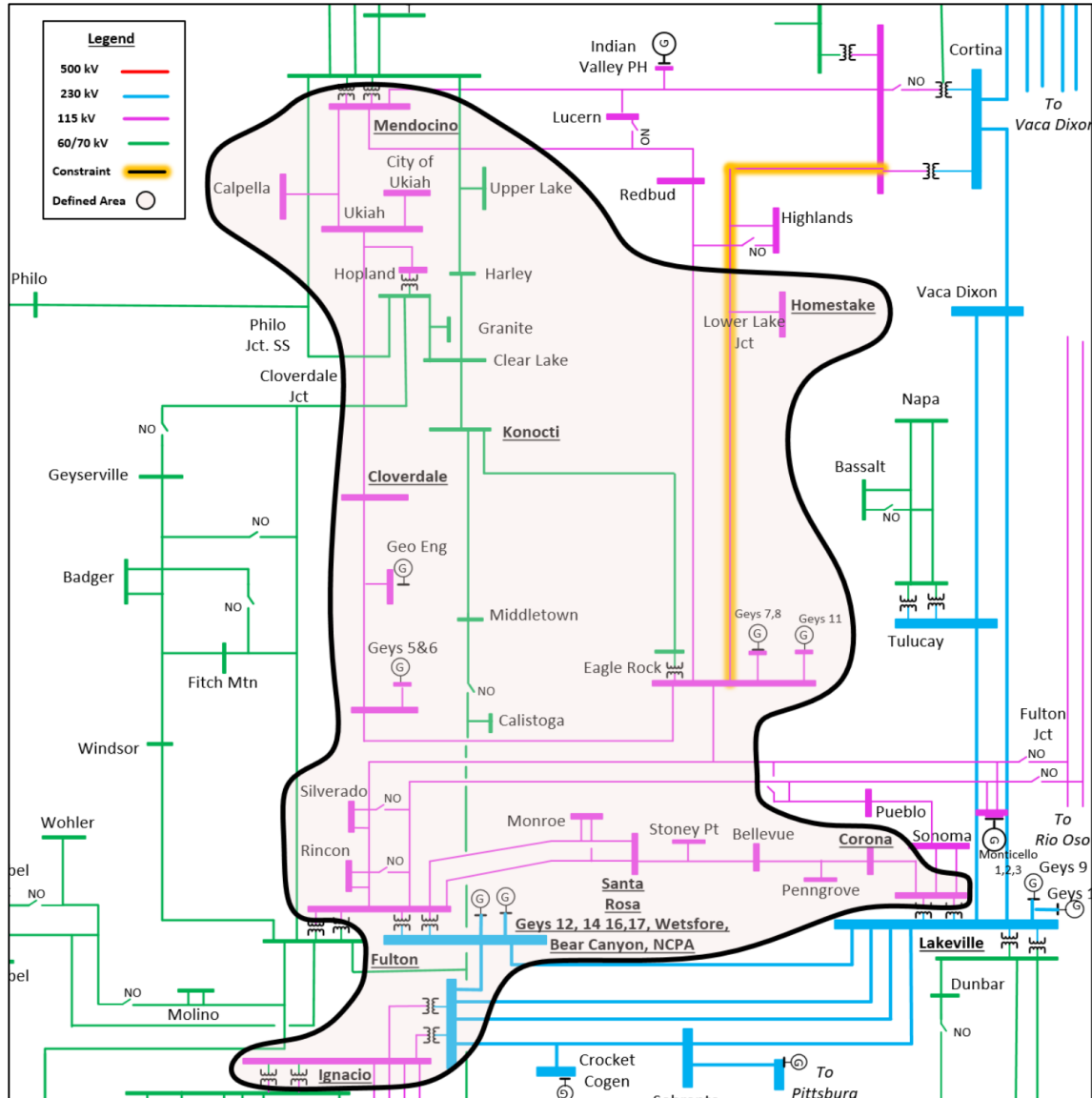
Vaca Dixon - Tesla 500kV line On-Peak Constraint



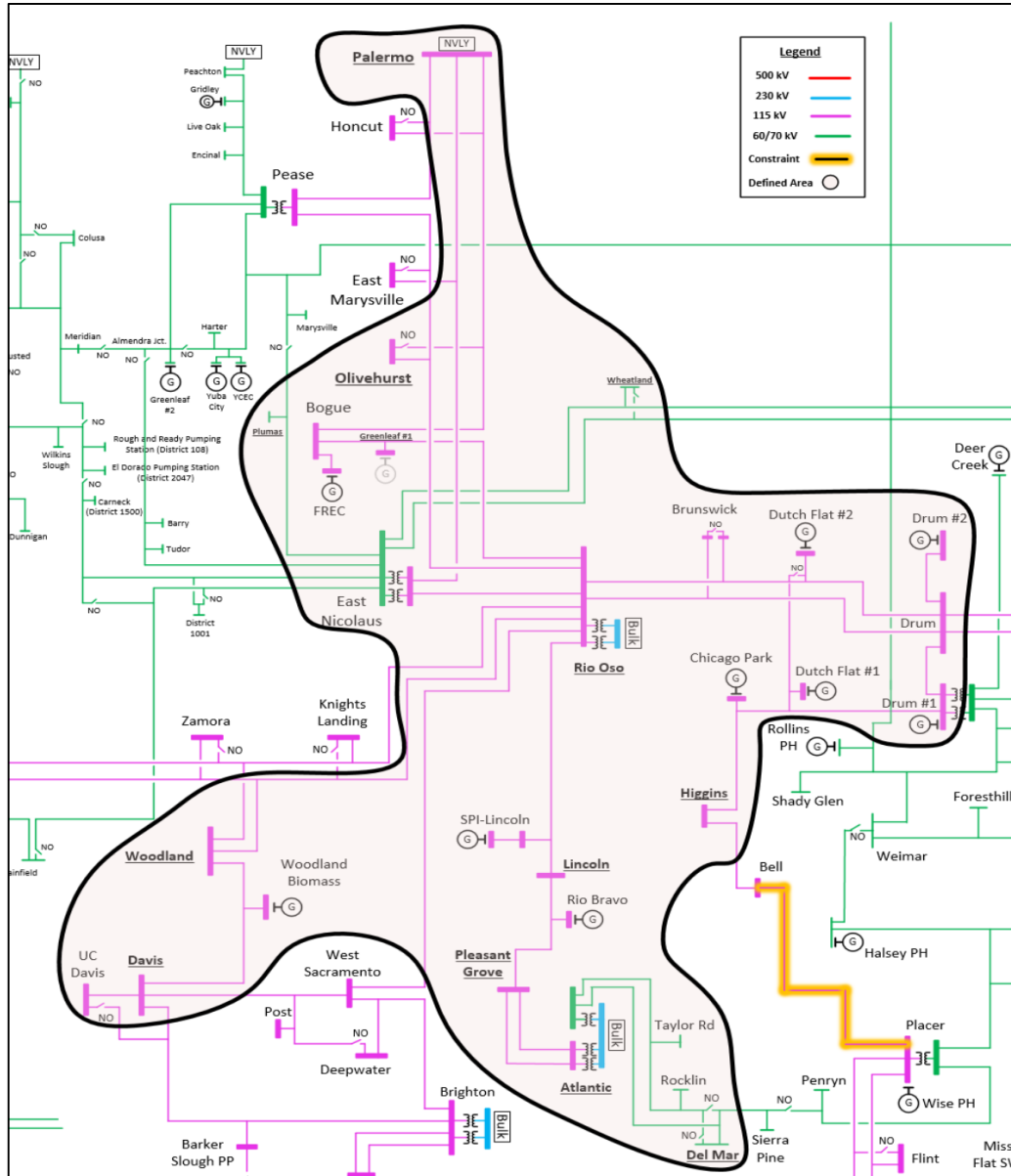
Woodland-Davis 115 kV line On-Peak Constraint



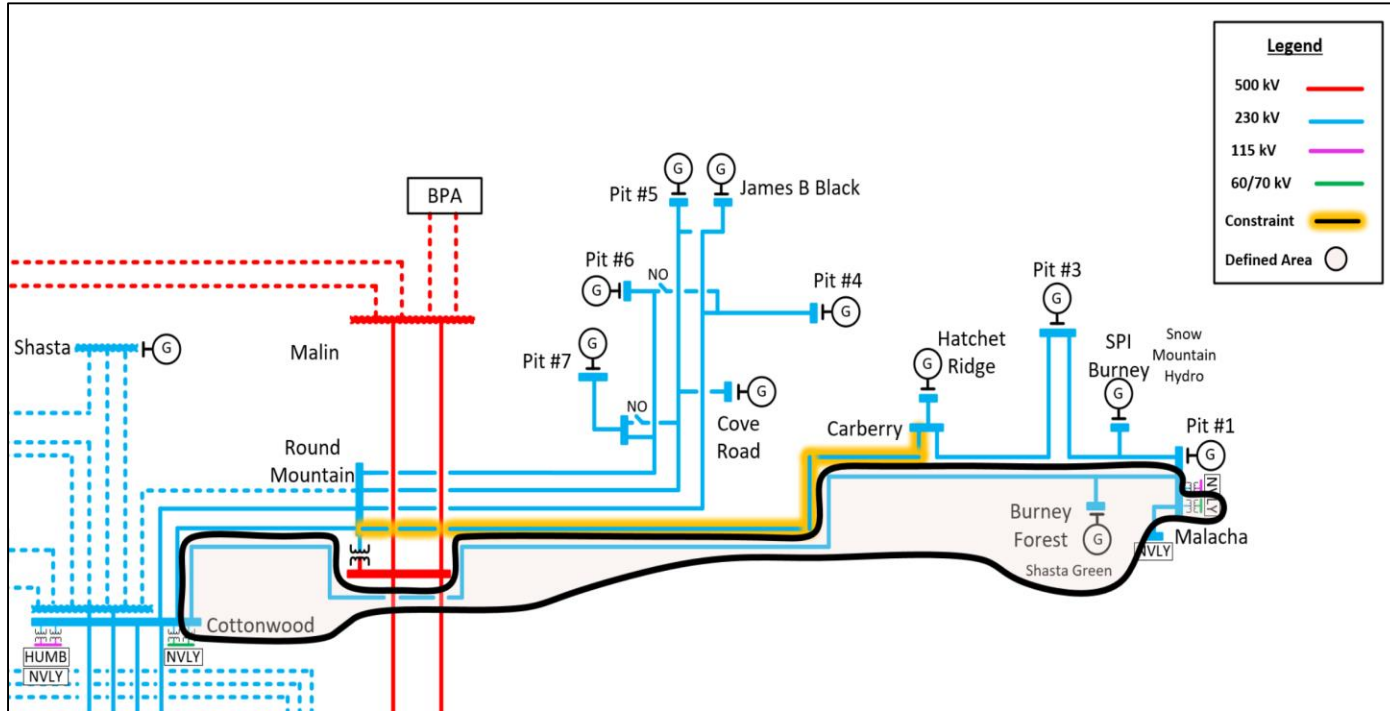
Cortina-Eagle Rock 115 kV line On-Peak Constraint



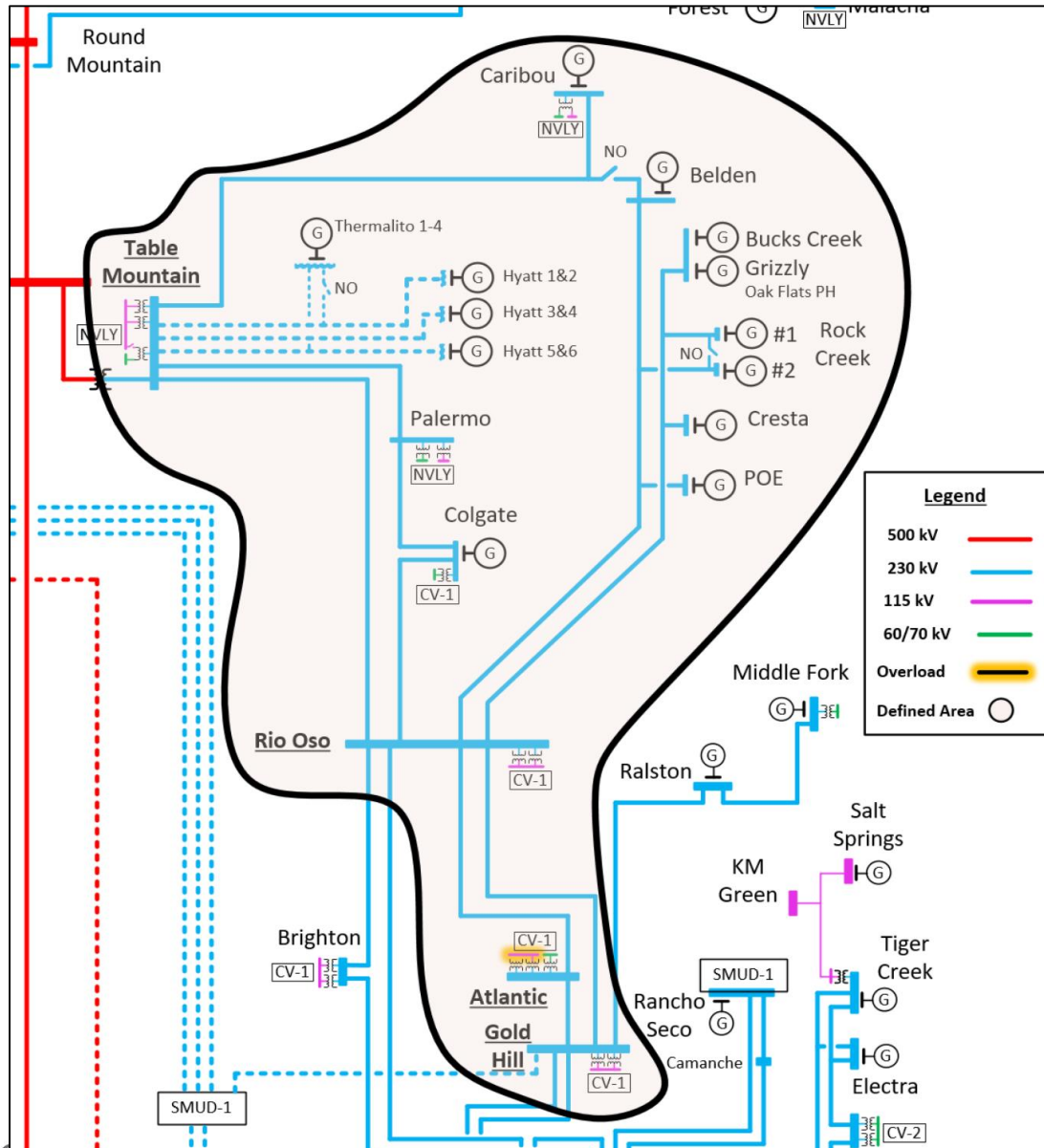
Bell-Placer 115 kV line On-Peak Constraint



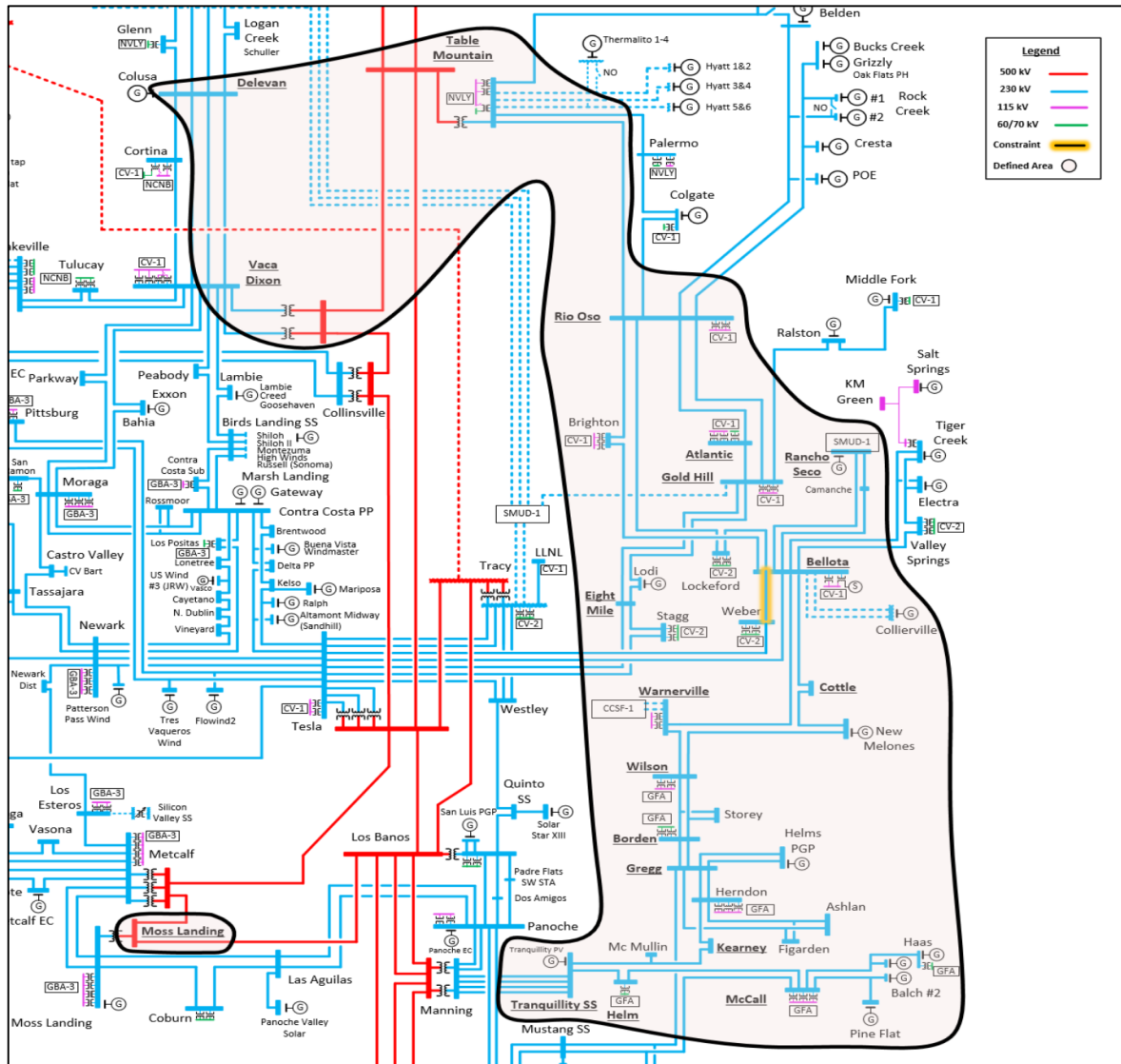
Carberry-Round mountain 230 kV line On-Peak Constraint



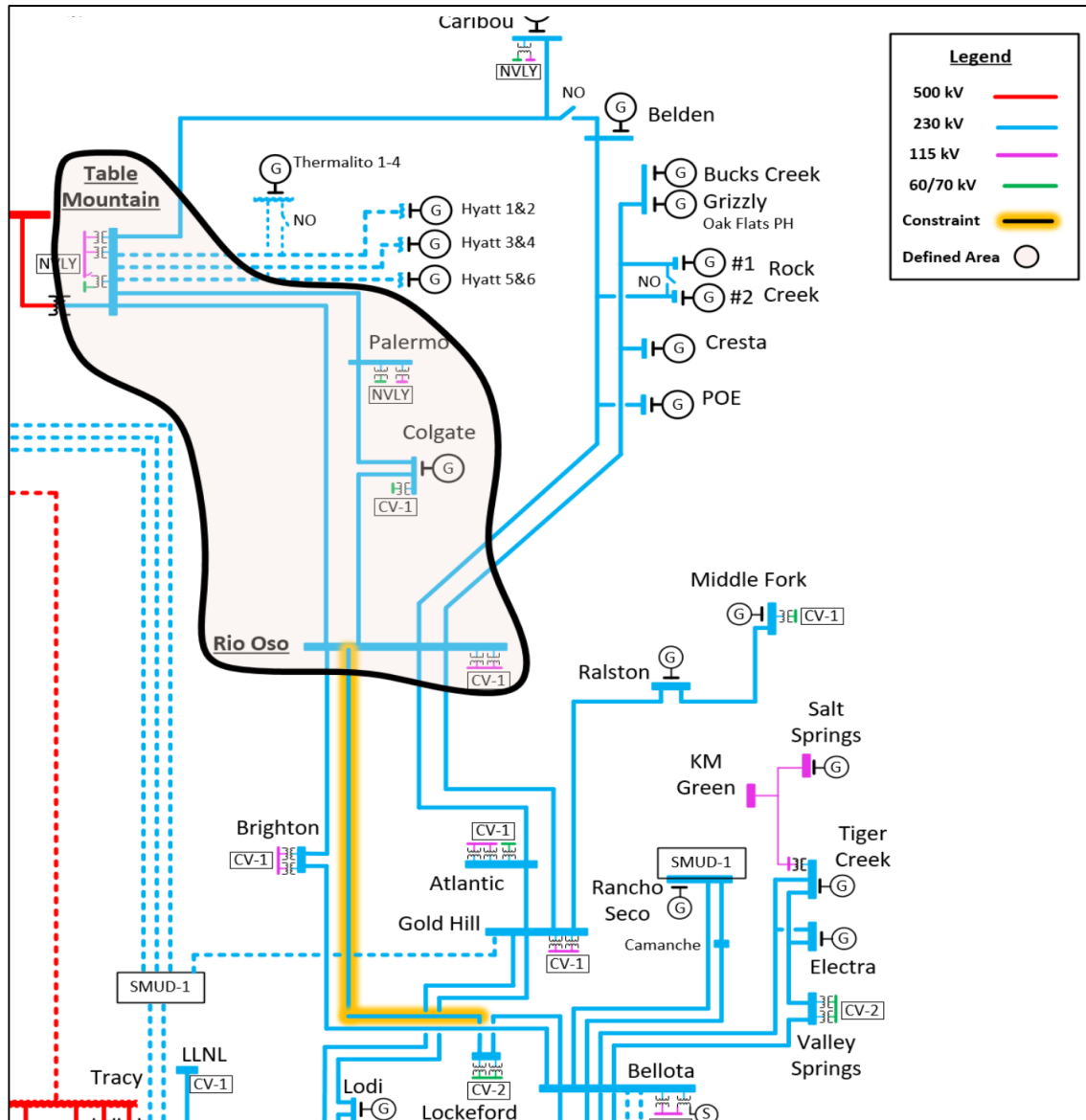
Rocklin-Pleaseant grove 115kV line On-Peak/Off-Peak Constraint



Bellota-Weber 230kV line On-Peak Constraint

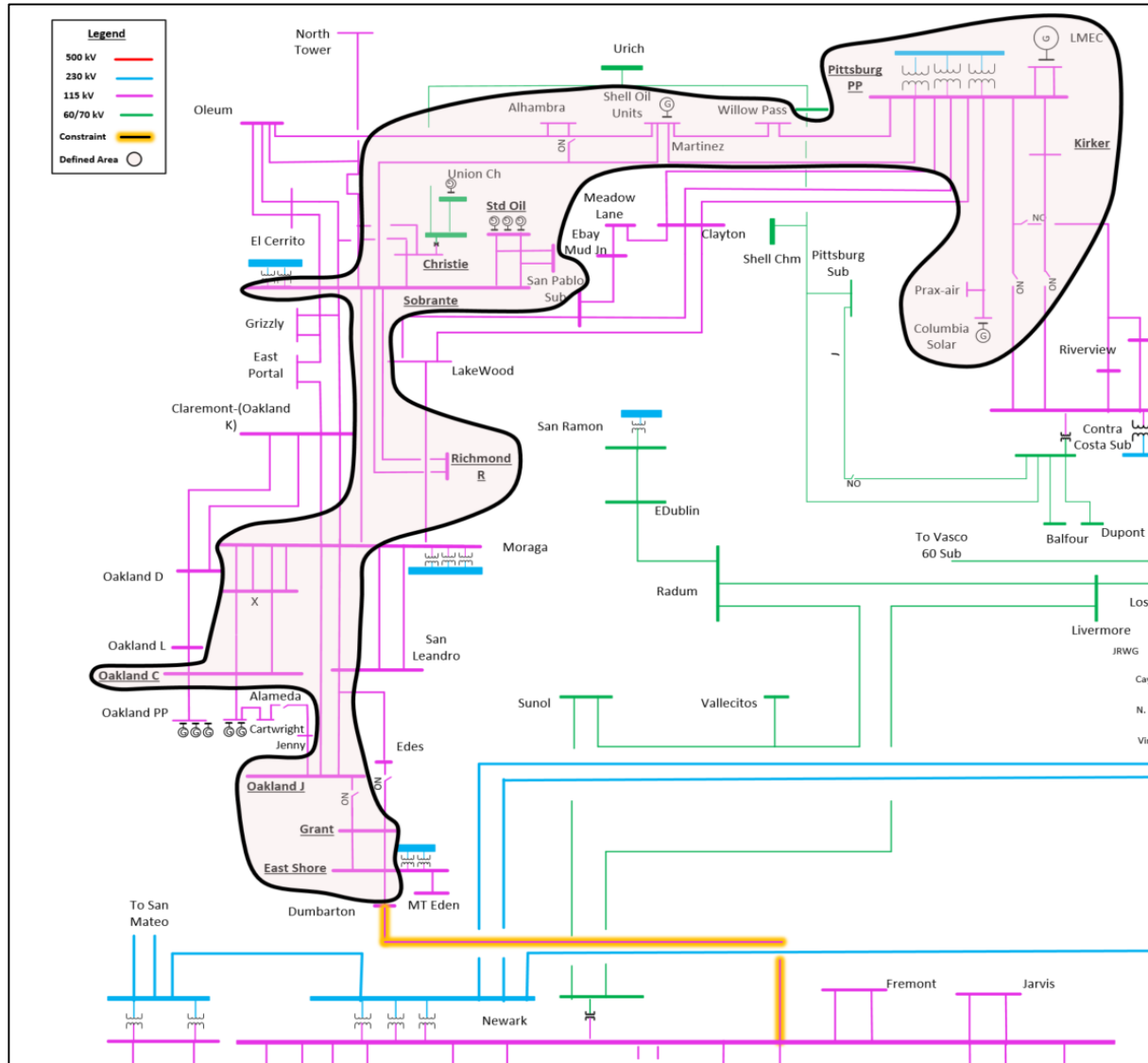


Rio Oso-Lockeford 230kV line On-Peak Constraint

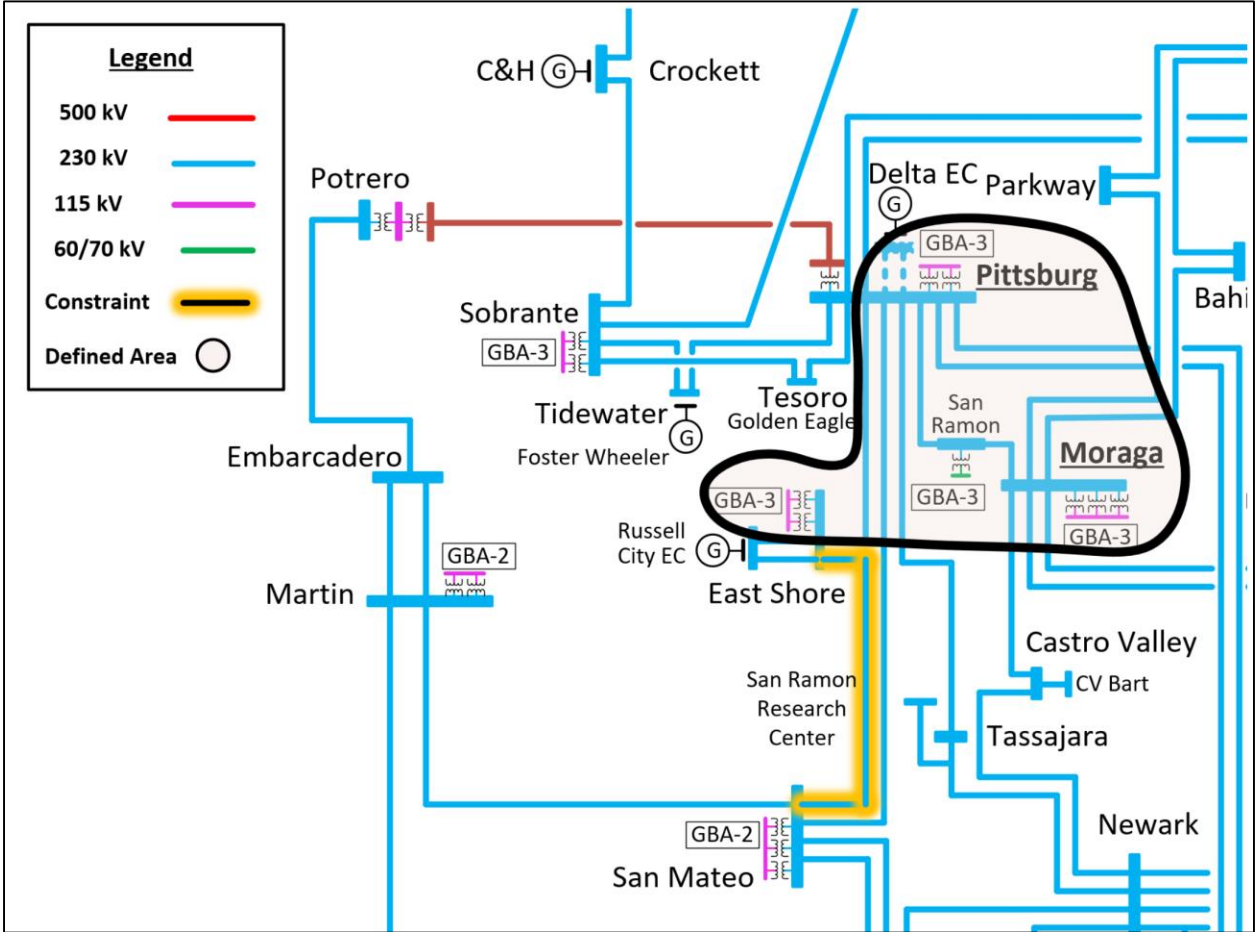


PG&E Greater Bay Interconnection Area Deliverability Constraints

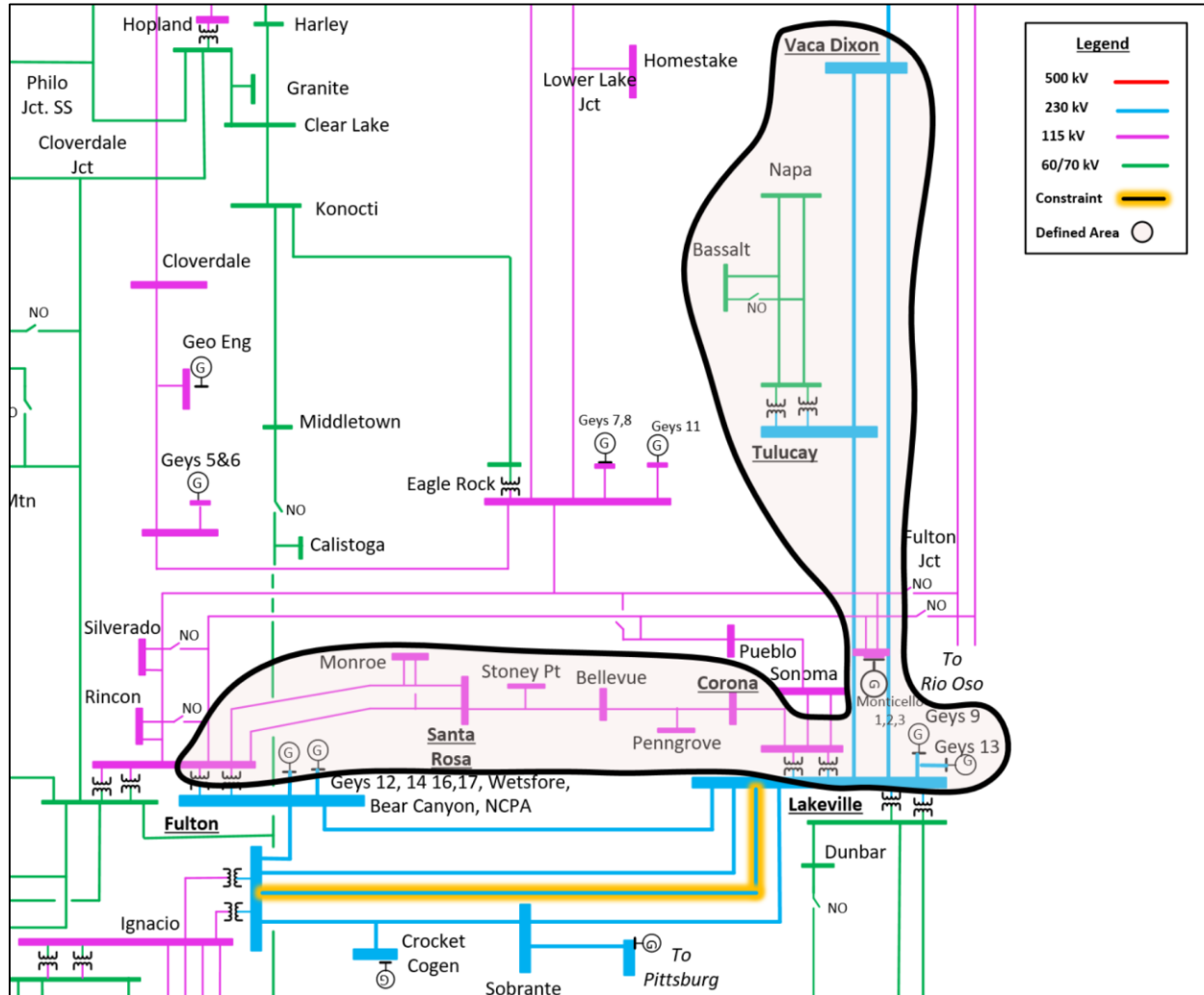
Dumbarton-Newark 115 kV line On-Peak Constraint



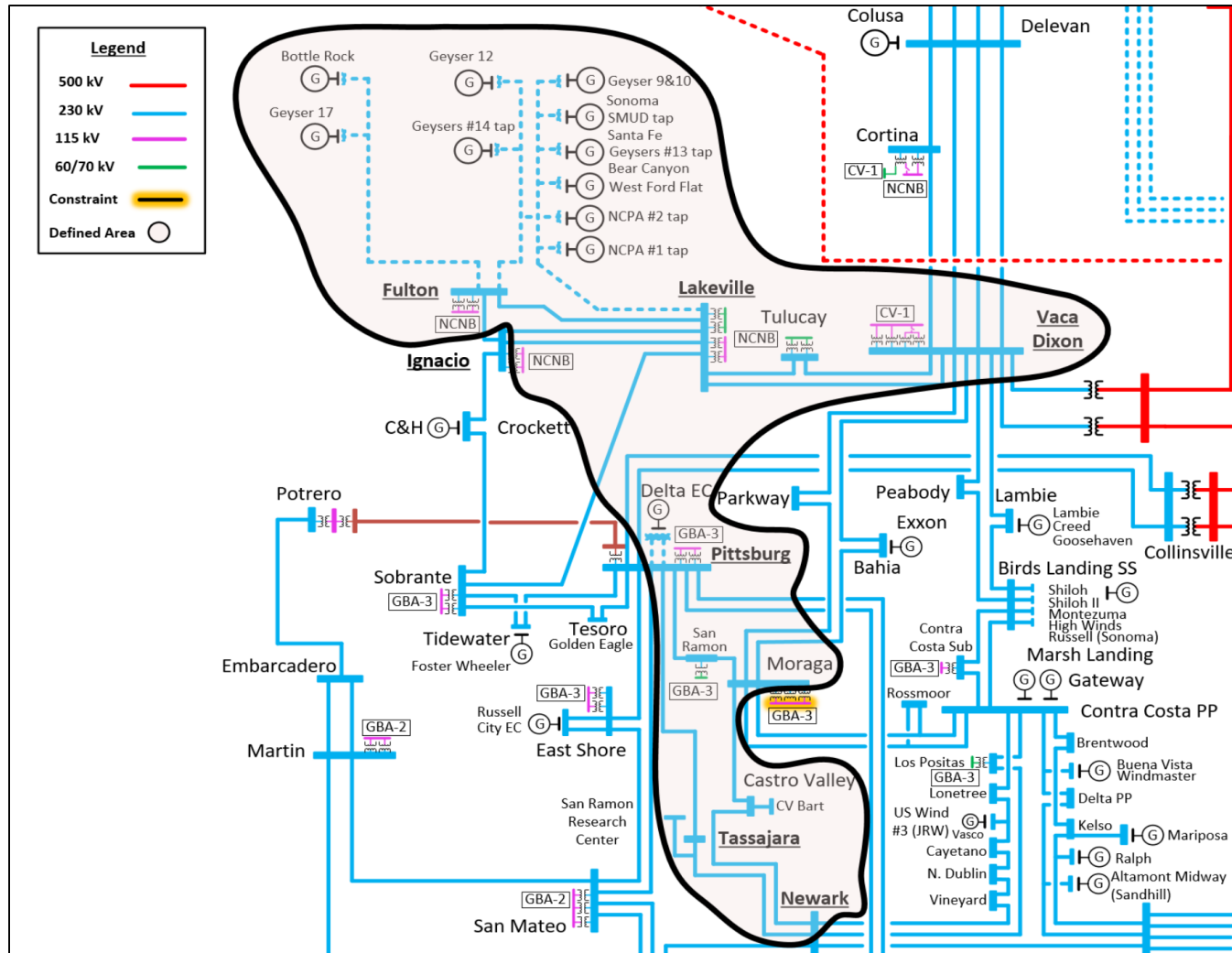
Eastshore-San Mateo 230 kV line On-Peak Constraint



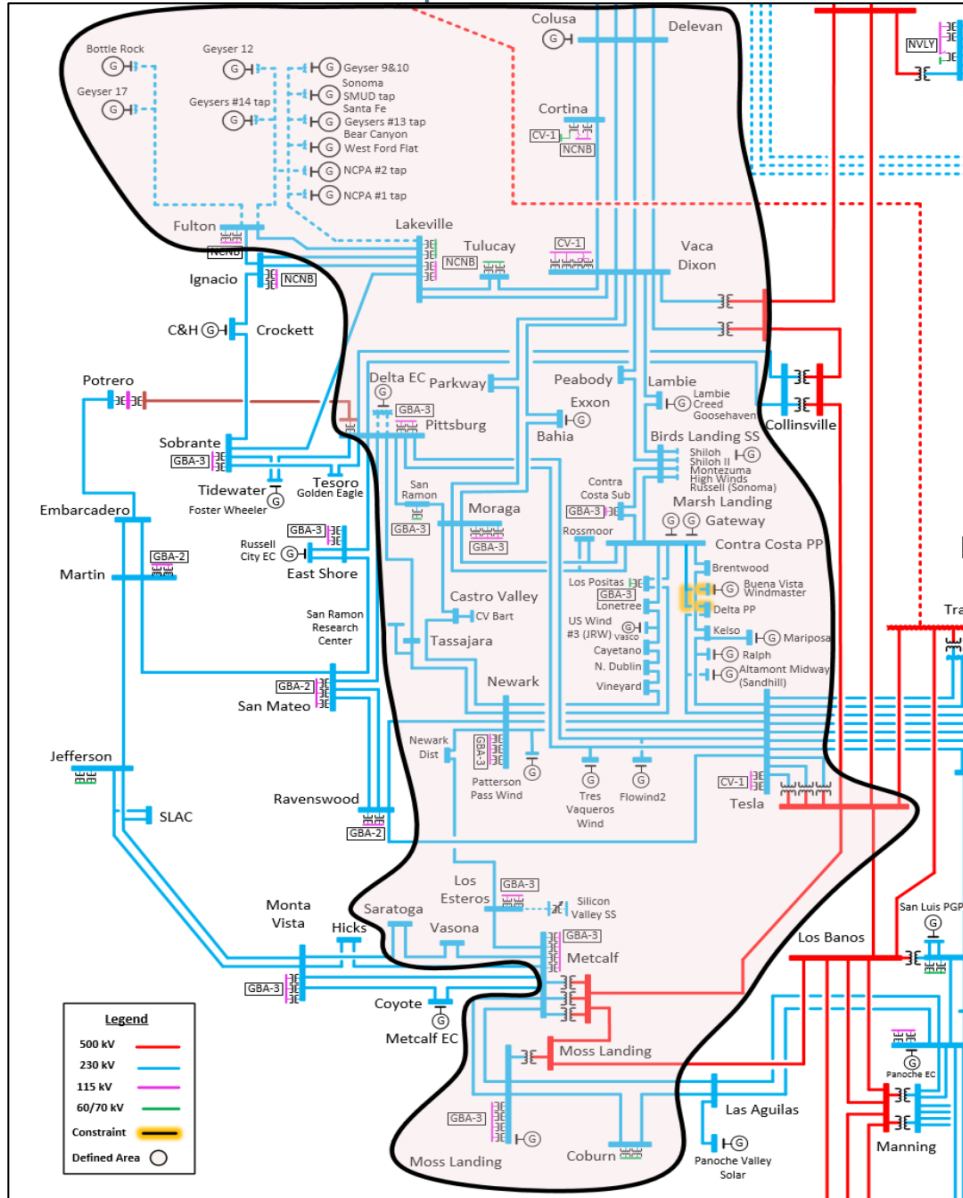
Lakeville-Igancio 230 kV line On-Peak Constraint



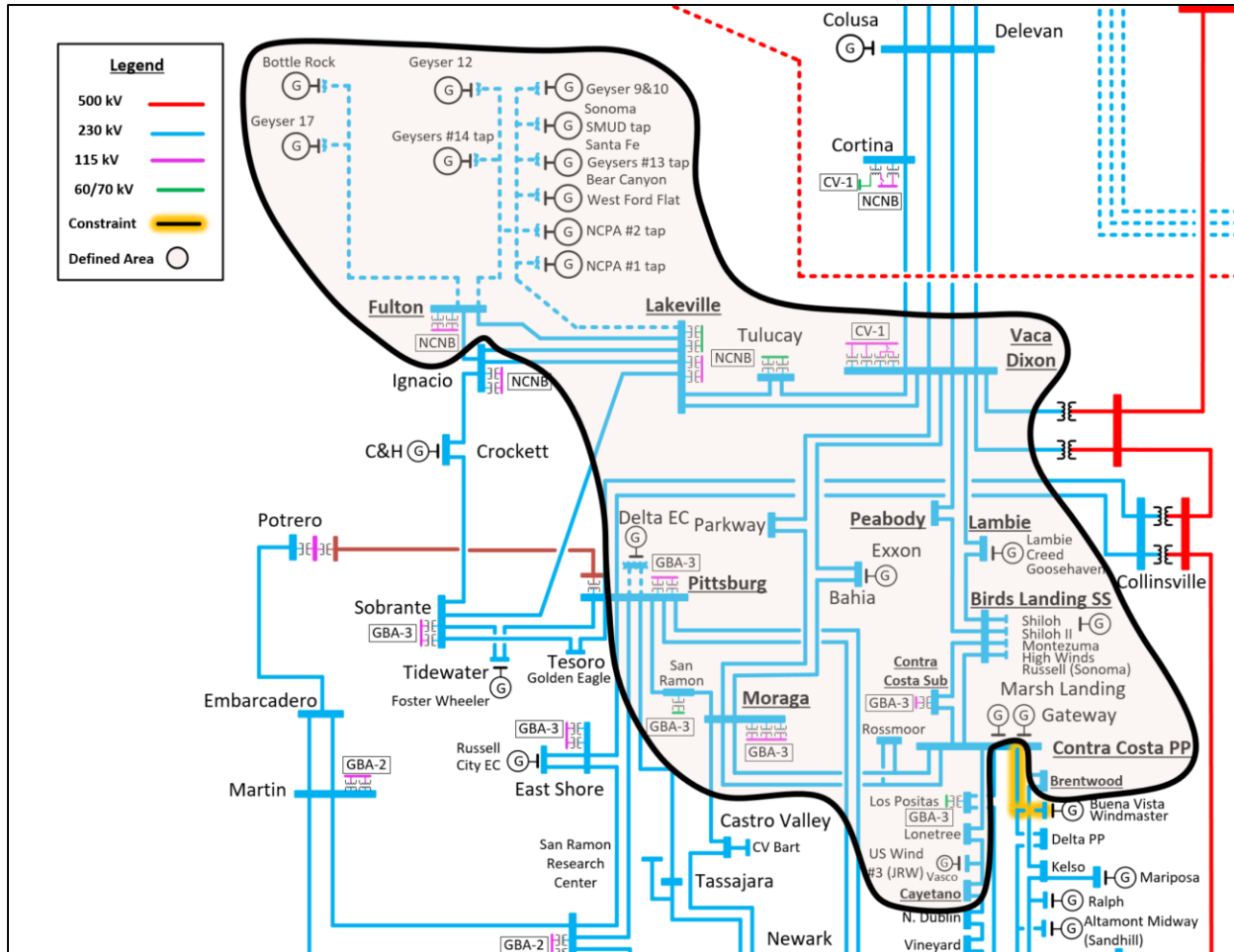
Sobrante-Moraga 230 kV line On-Peak Constraint



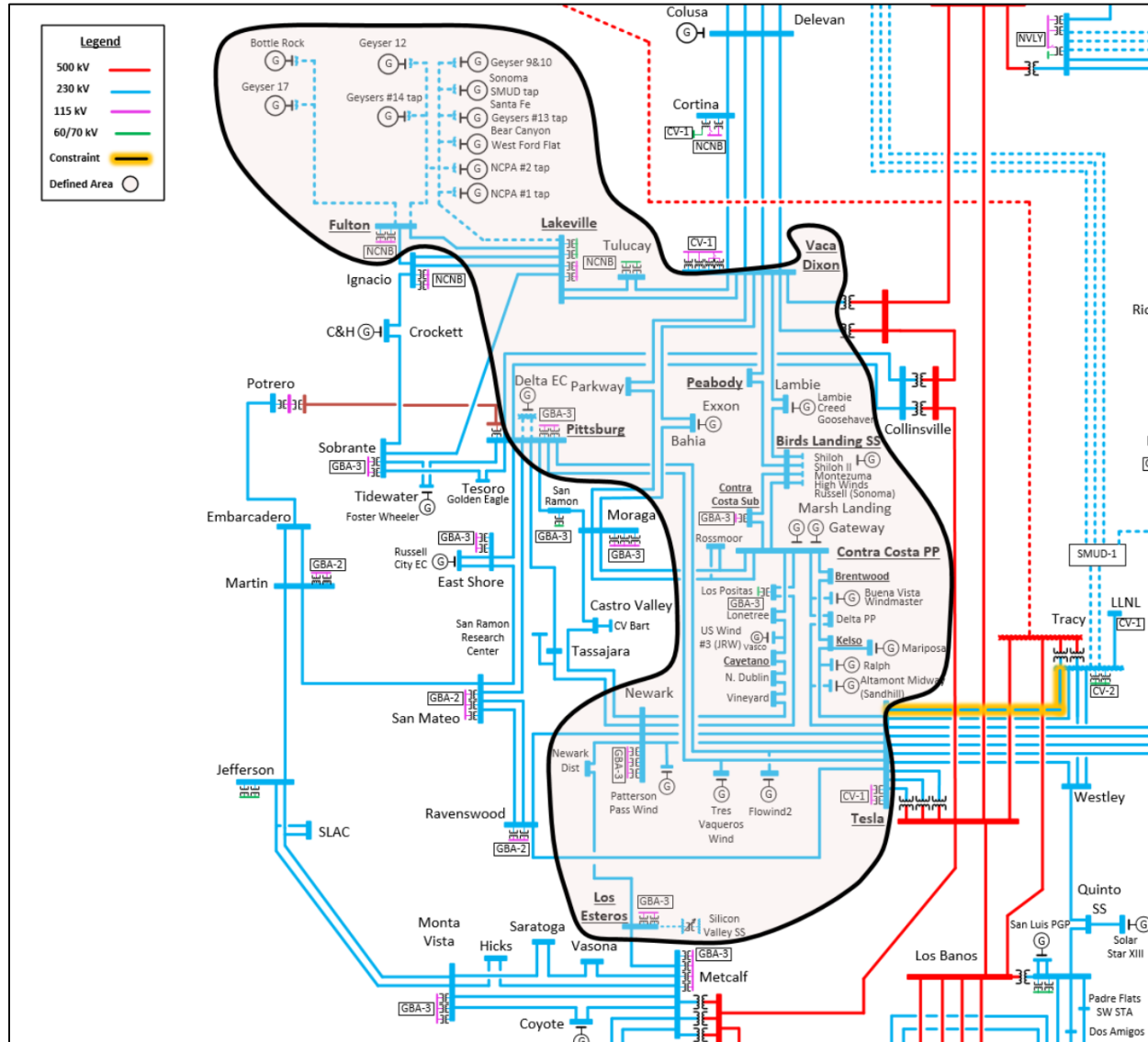
Windmaster- Delta Pumps 230 kV line On-Peak Constraint



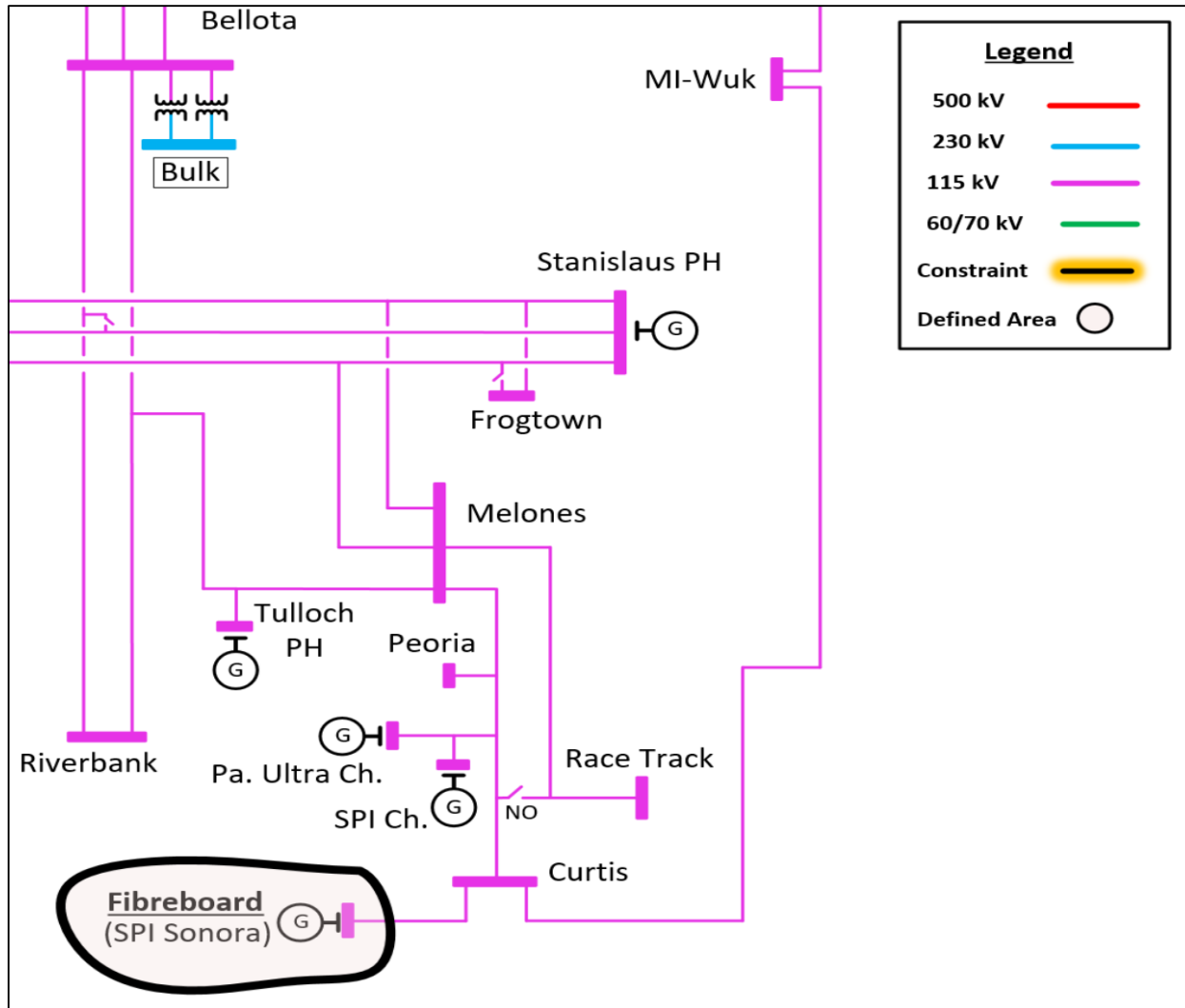
Contra Costa- Windmaster 230 kV line On-Peak Constraint



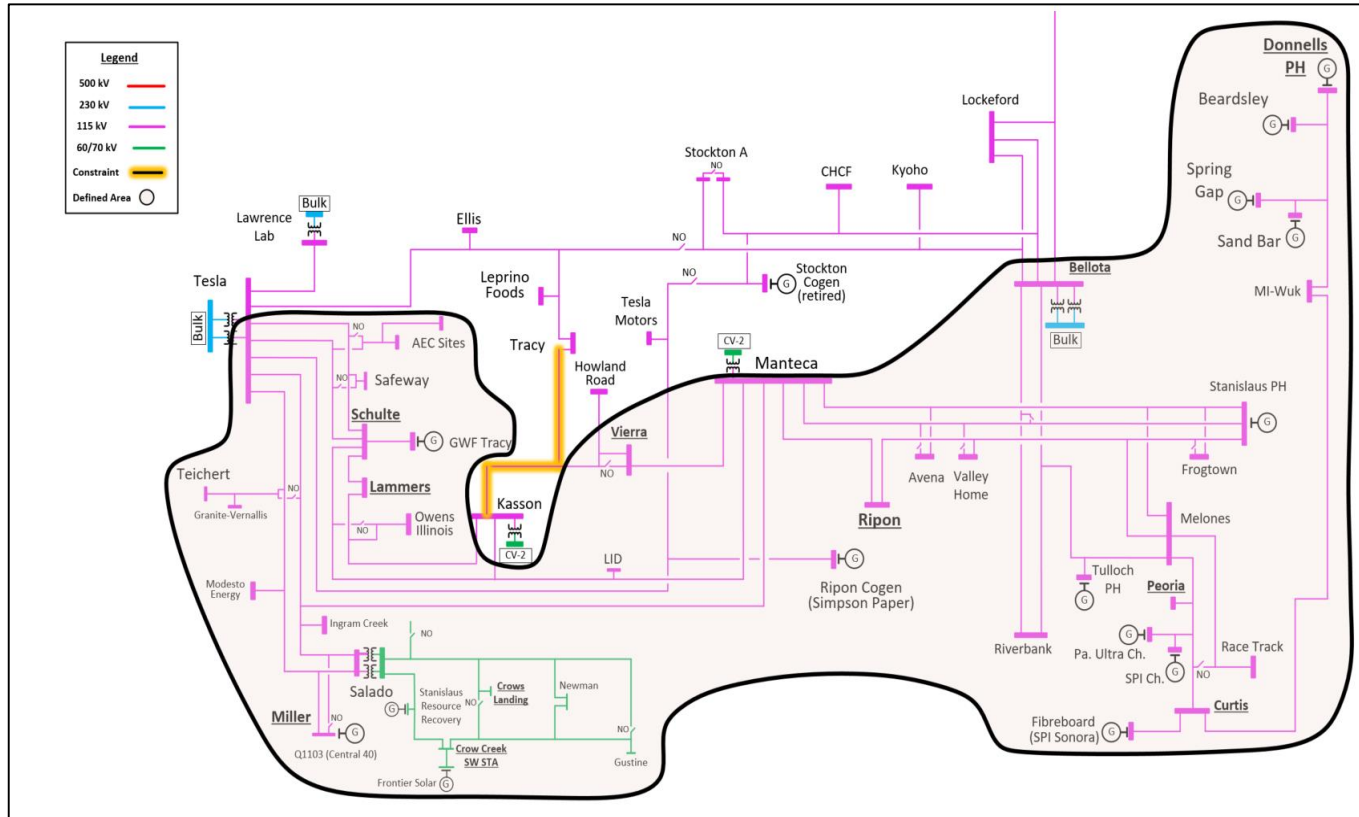
Tesla - Tracy Pumps #2 230 kV line On-Peak Constraint



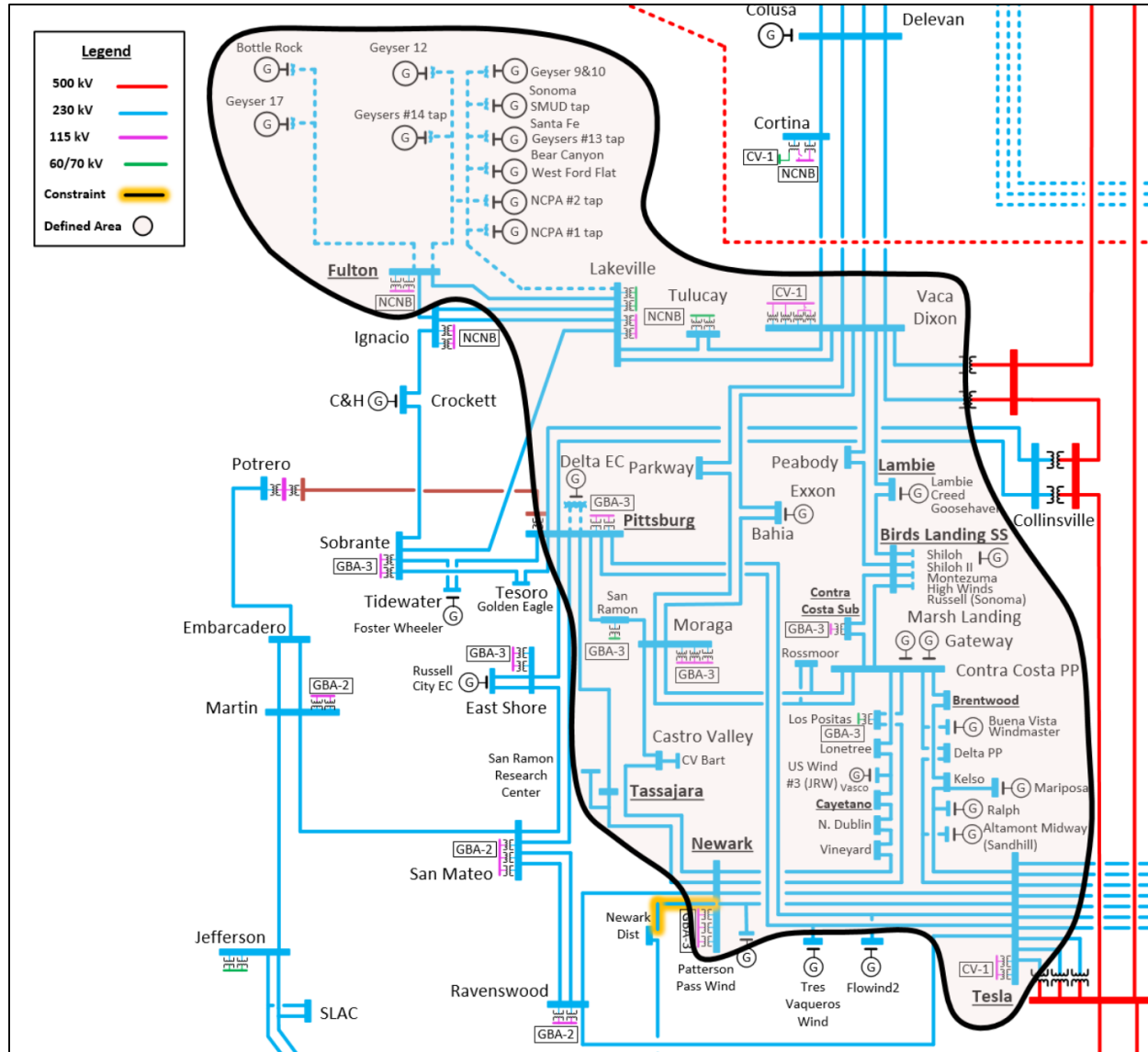
Contra Costa #1 115 kV line On-Peak Constraint



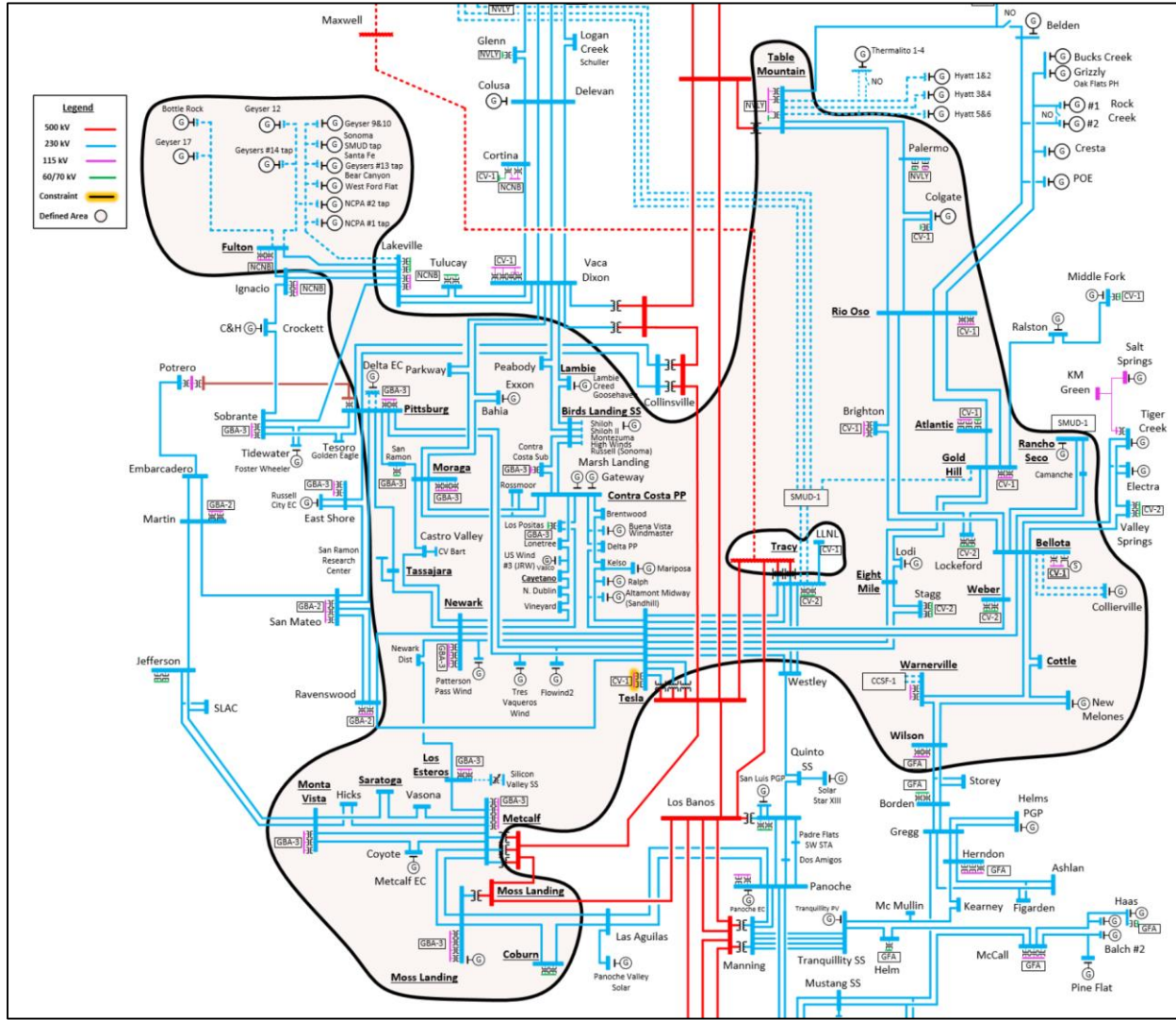
Kasson Jct-Heinz 115 kV line On-Peak Constraint



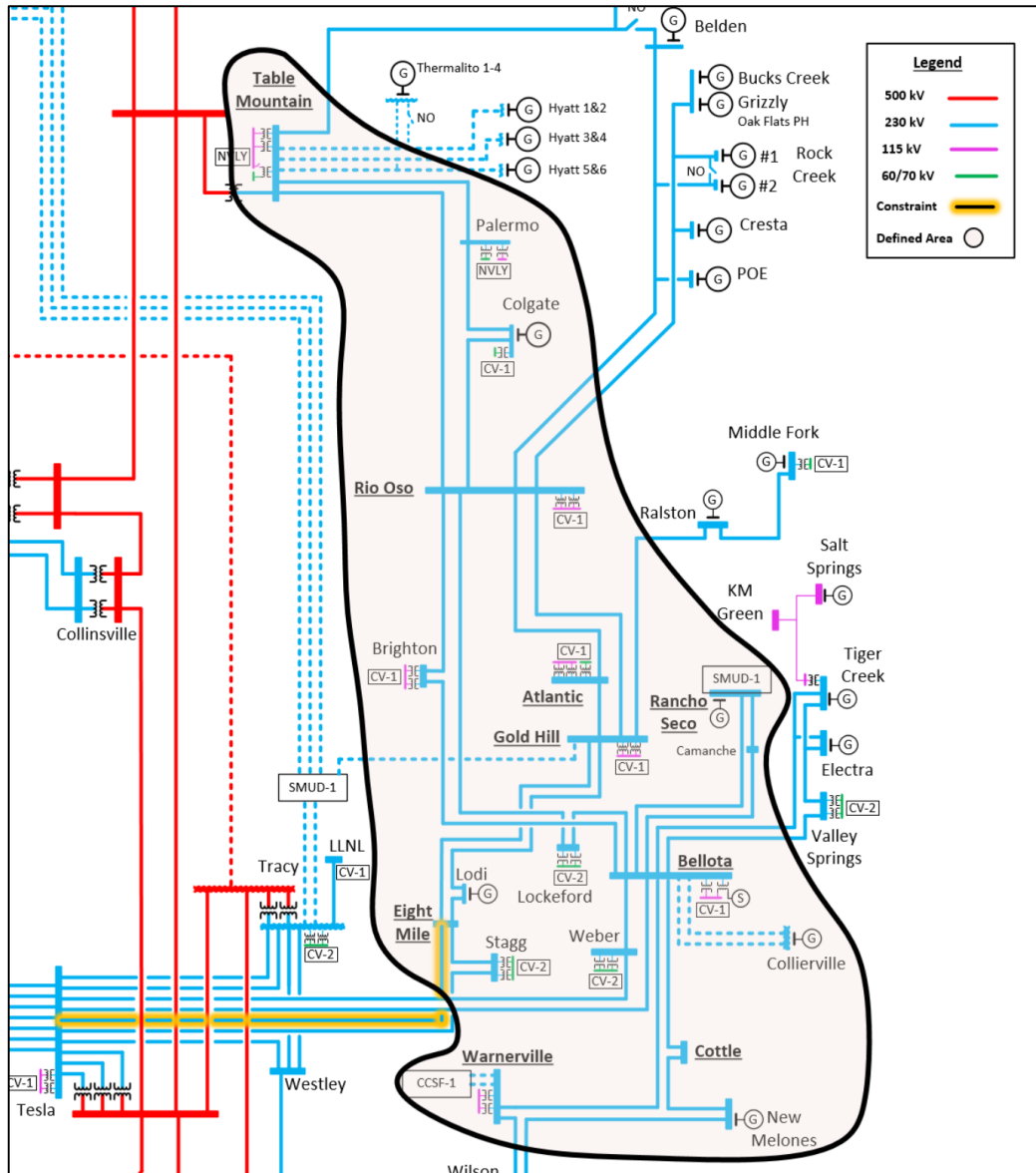
Newark-Newark Distribution 115 kV line On-Peak Constraint



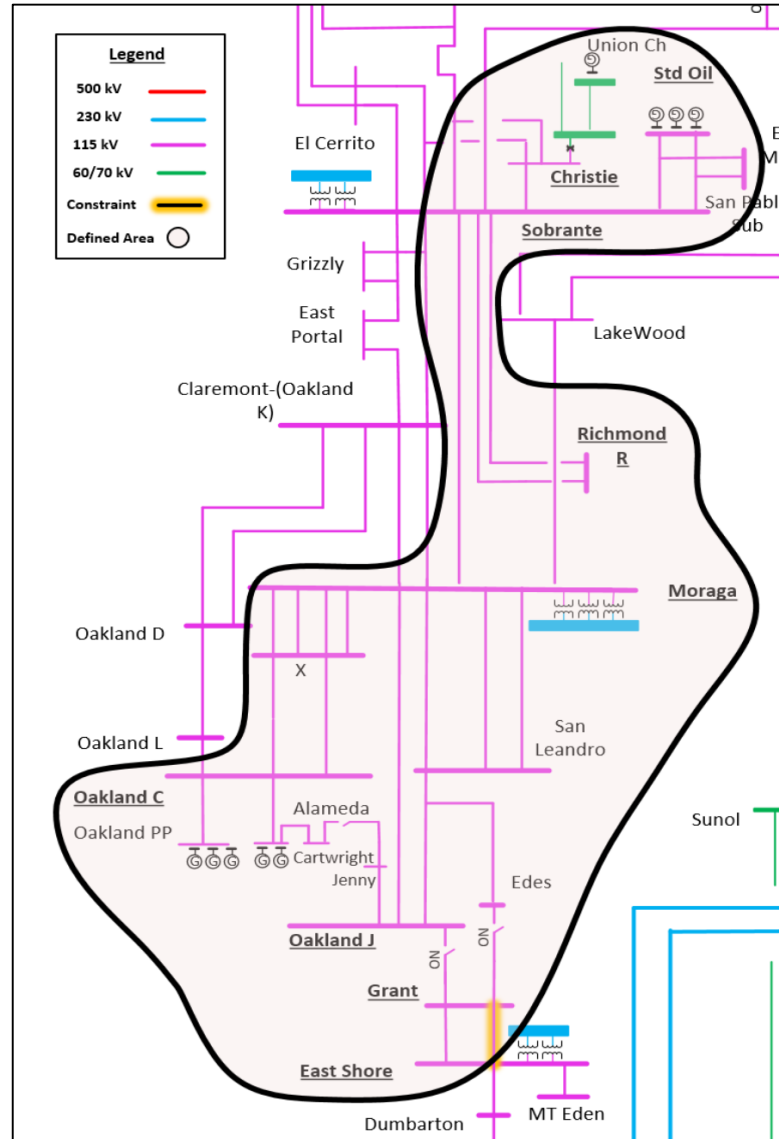
Tesla-Bellota 115 kV line On-Peak Constraint



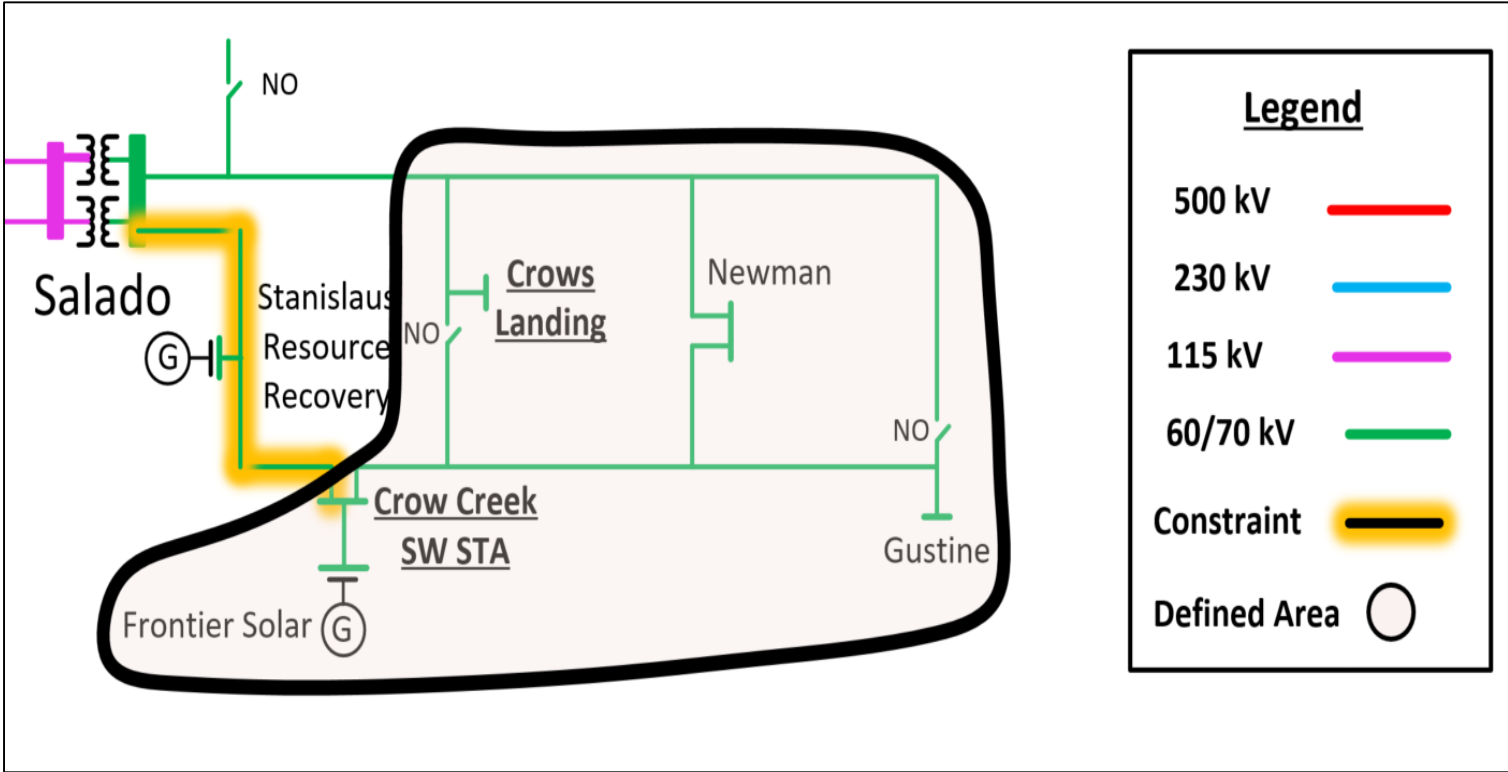
Eight Mile-Tesla 230 kV line On-Peak Constraint



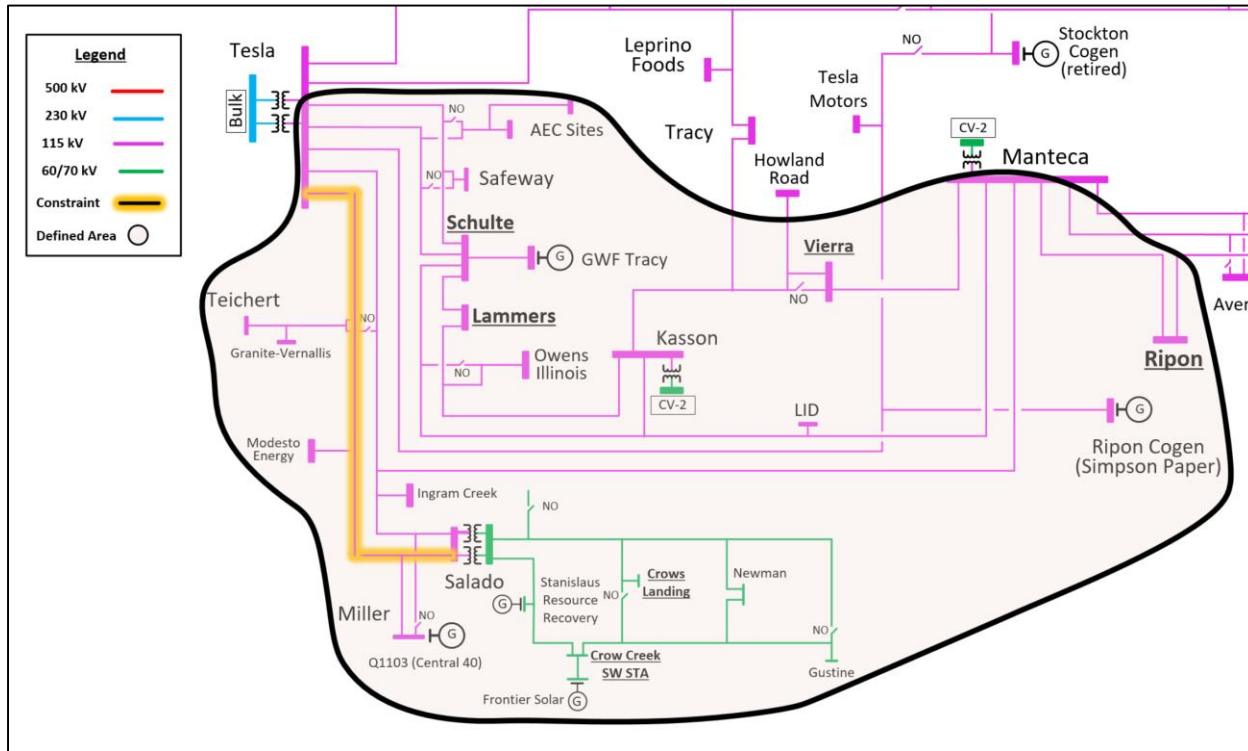
Grant - Eastshore #2 115 kV line On-Peak Constraint



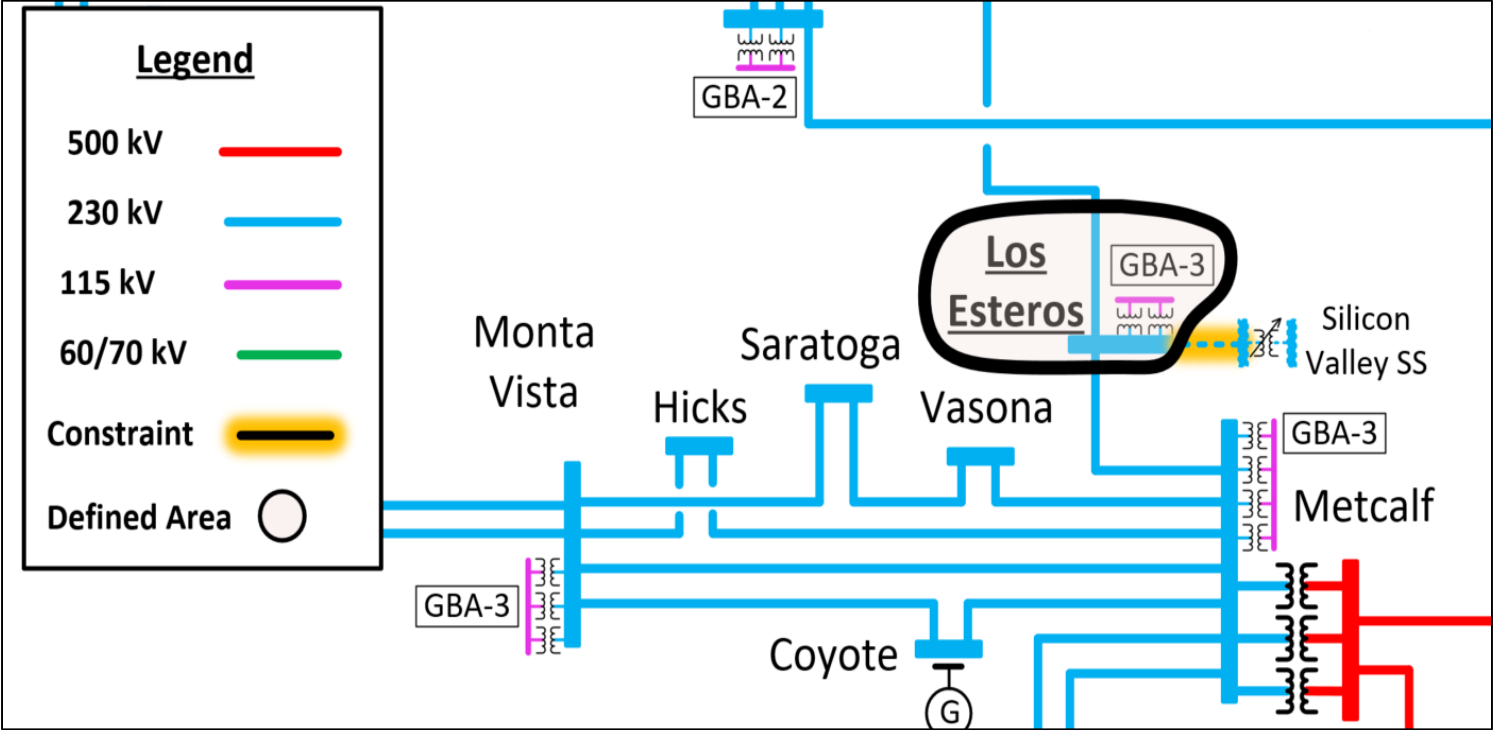
Salado - Crow Creek 60 kV line On-Peak Constraint



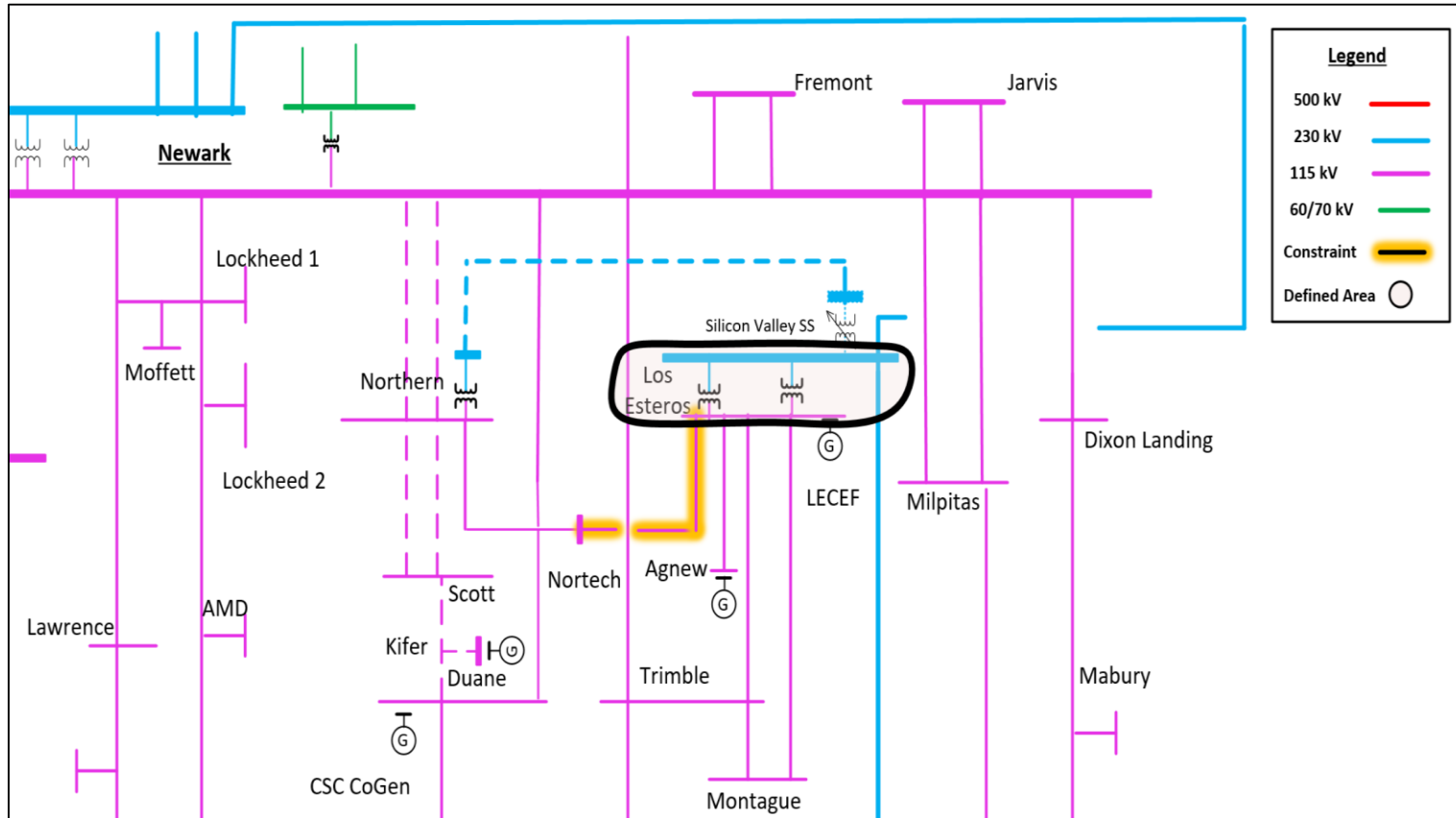
Tesla - Salado 115 kV line On-Peak Constraint



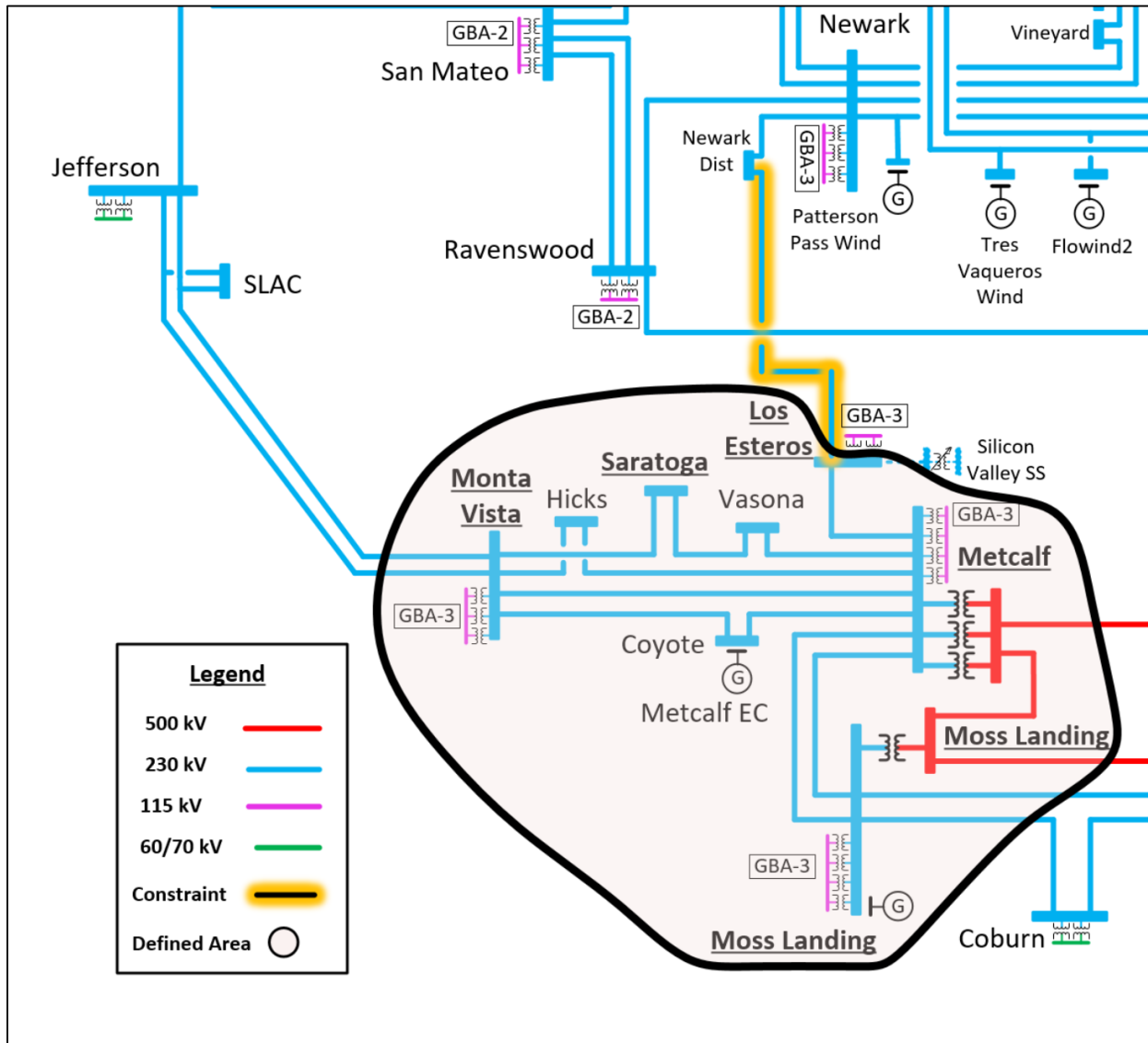
Los Esteros-Silicon Valley 230 kV On-Peak Constraint



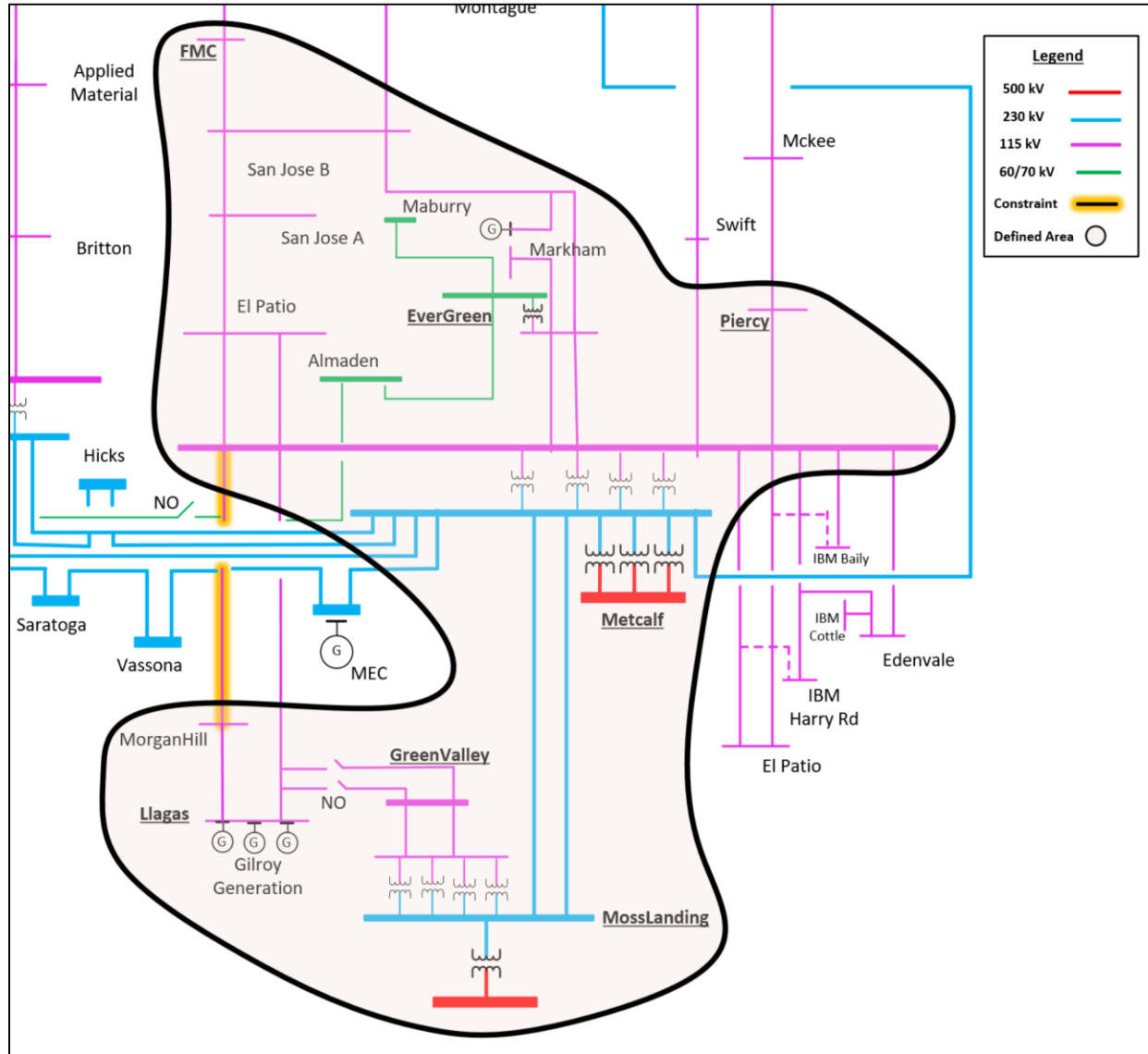
Los Esteros-Nortech 115 kV line On-Peak Constraint



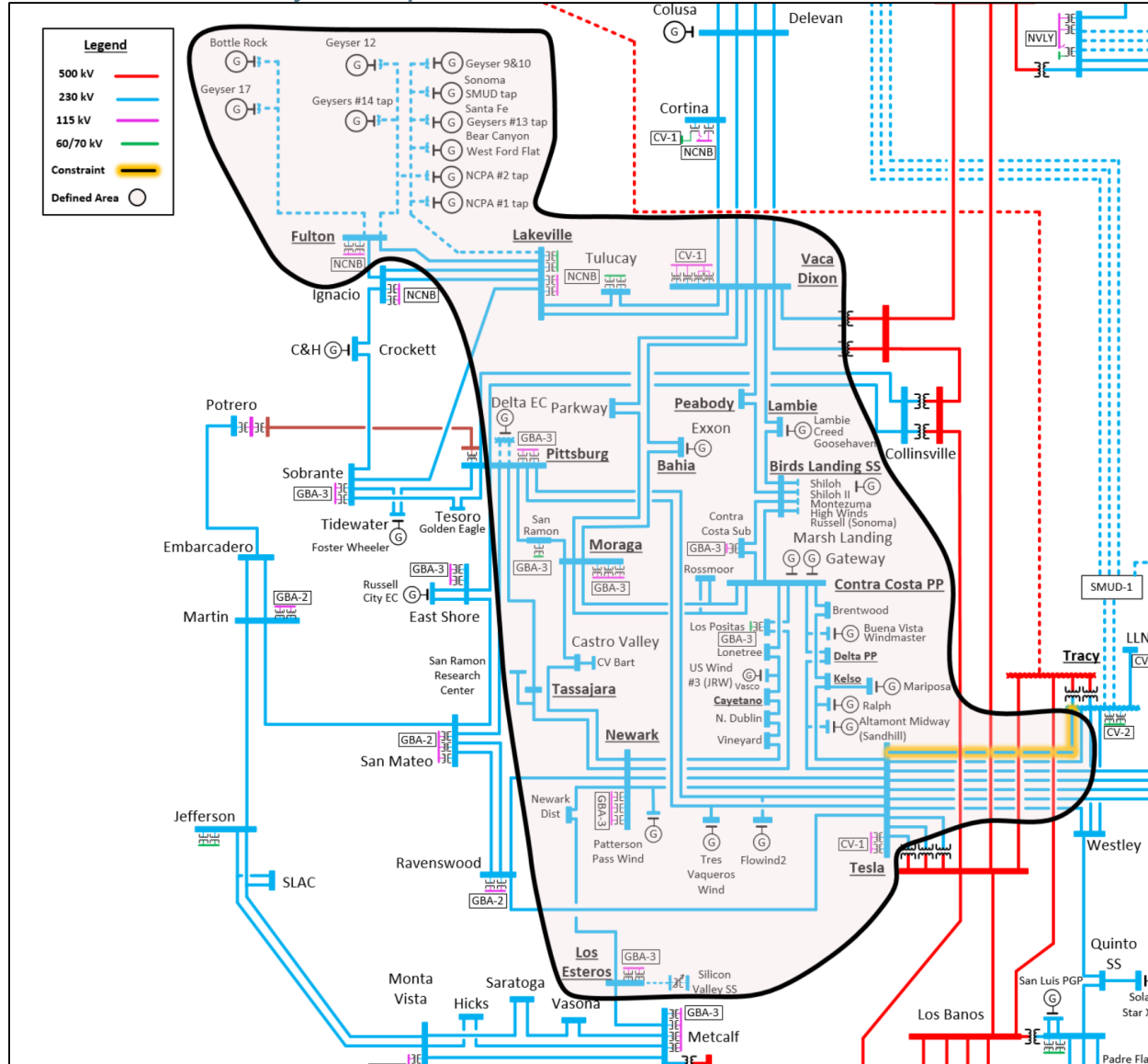
Newark-Los Esteros 230 kV line On-Peak Constraint



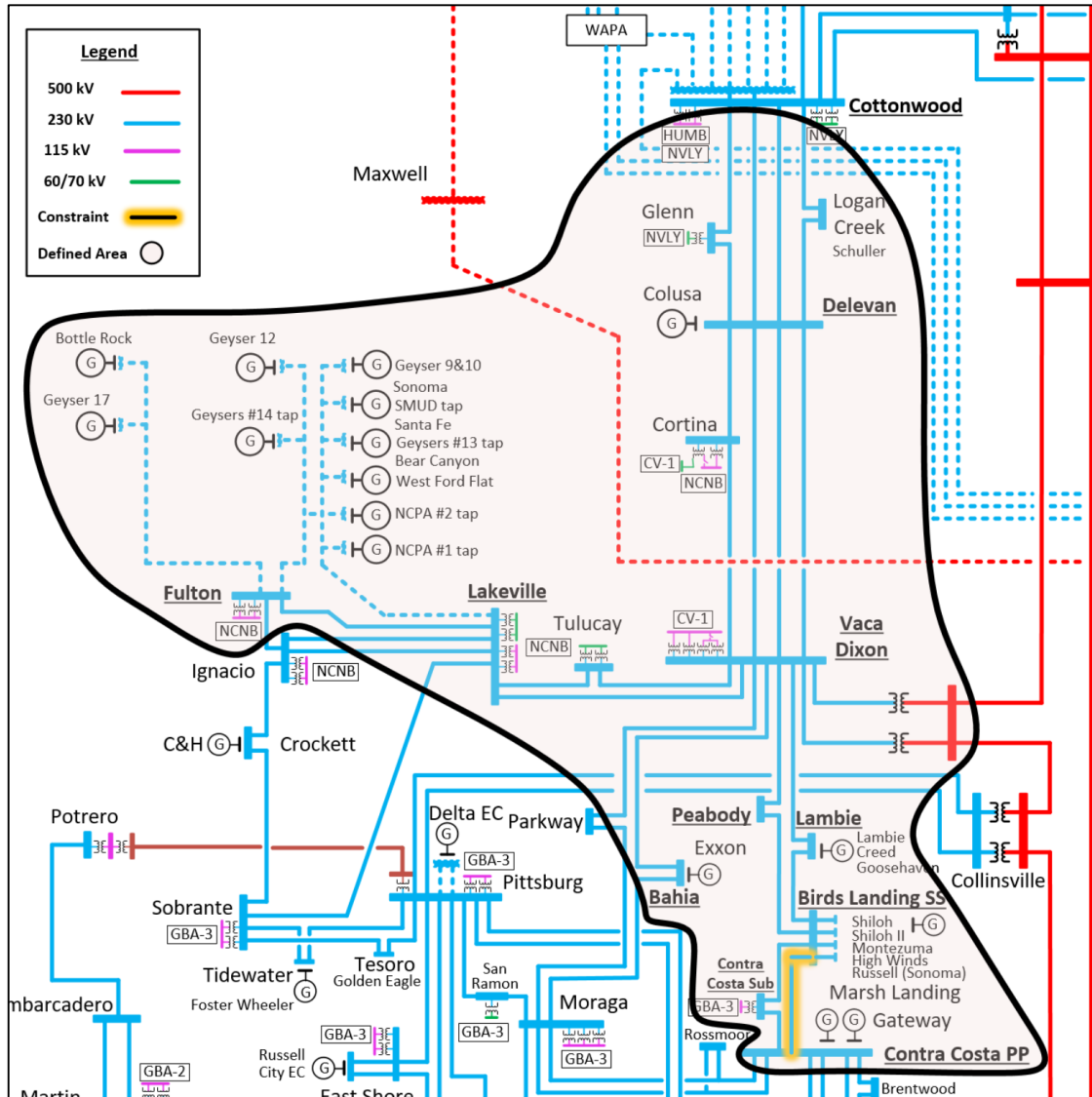
Morganhill-Metcalf 115kV Line On-Peak Constraint



Telsa-Tracy Pump #1 230 kV Line On-Peak Constraint

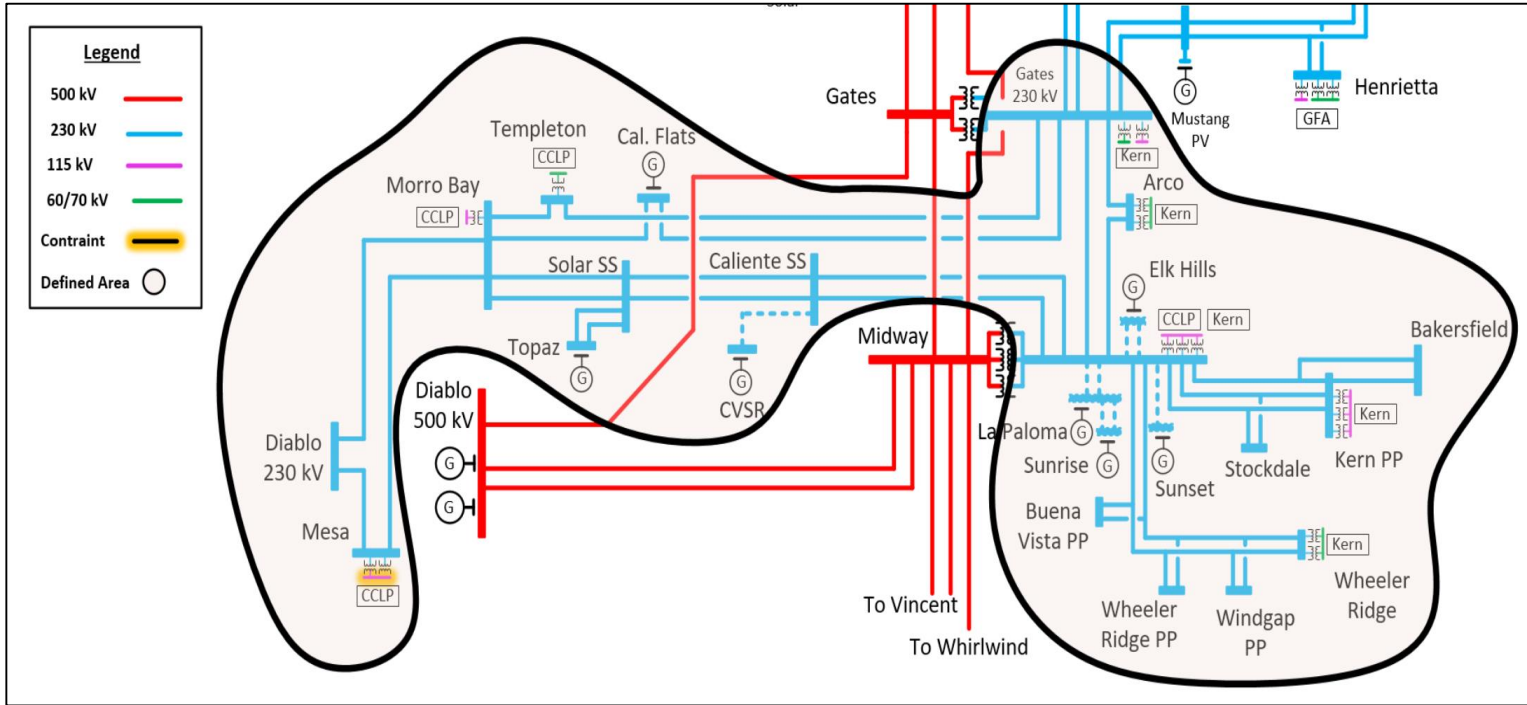


Birds Landing-Contra Costa 230kV Line On-Peak Constraint

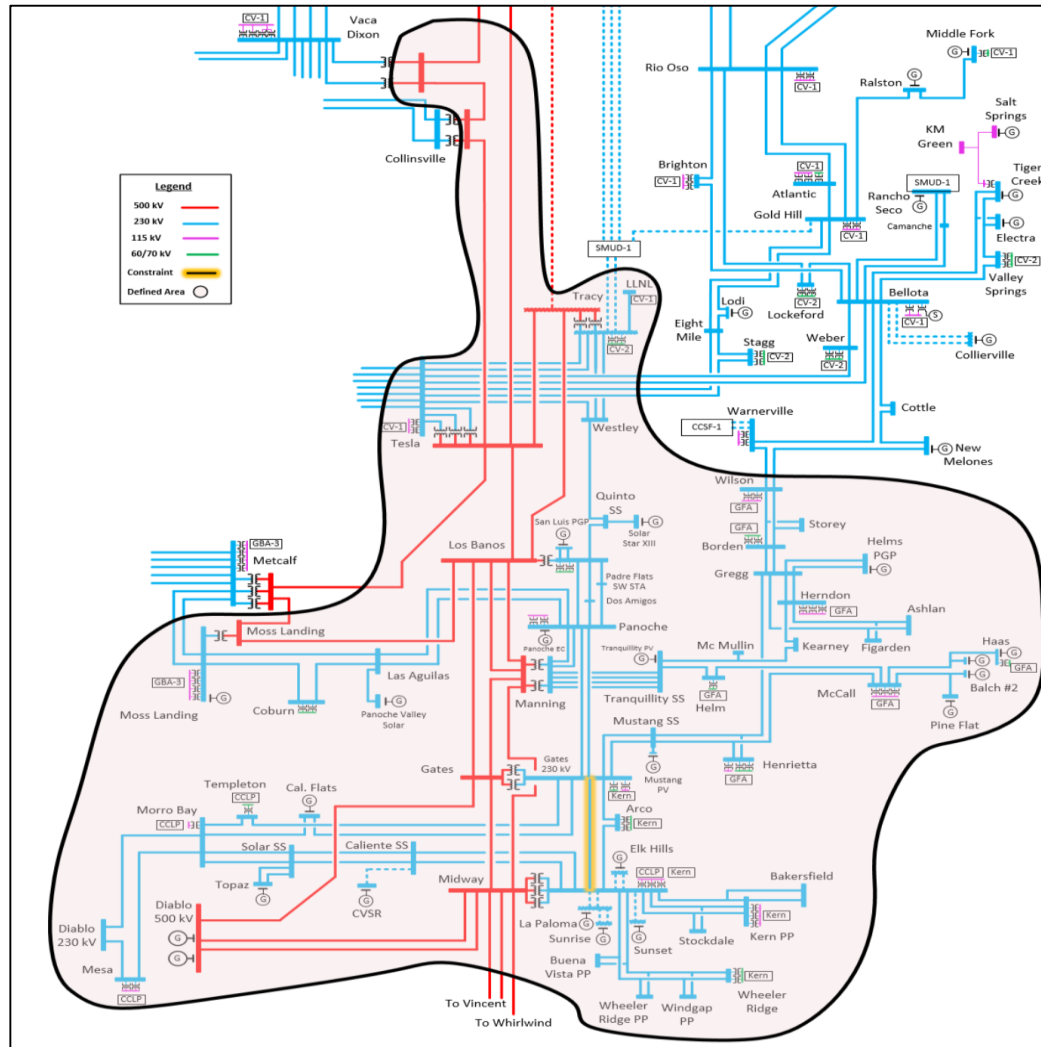


PG&E Kern Interconnection Area Deliverability Constraints

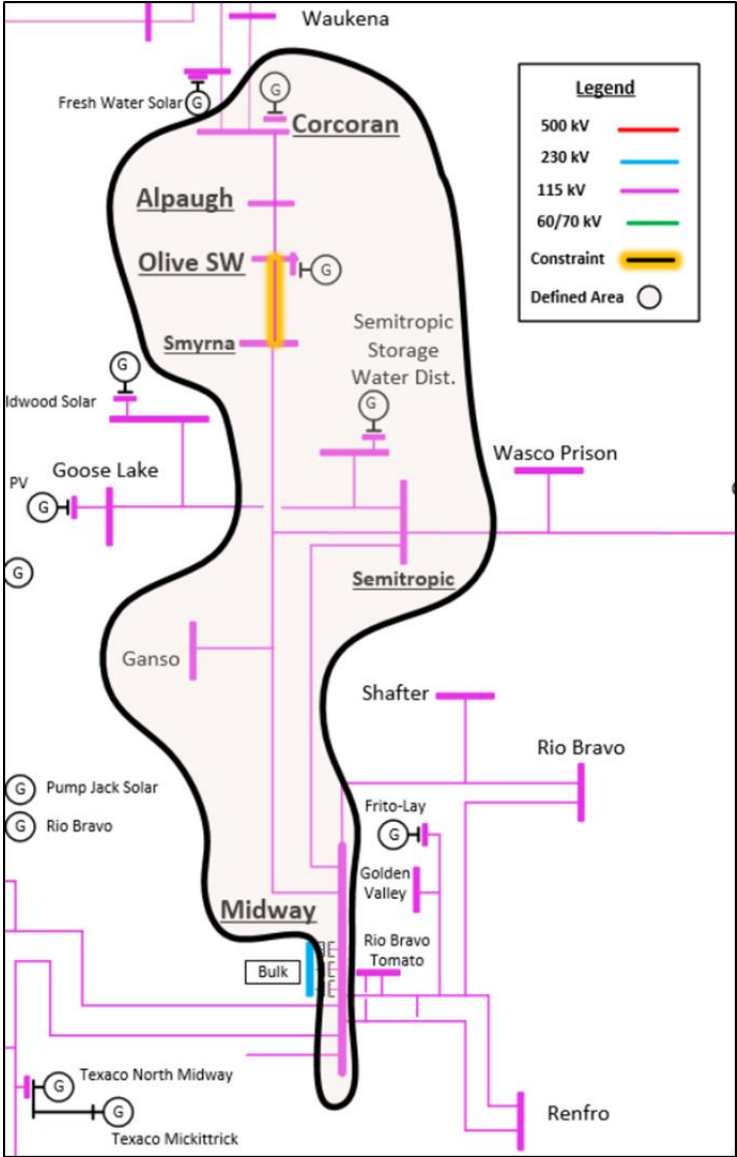
Oceano-Calendar 115kV line On-Peak/Off-Peak Constraint



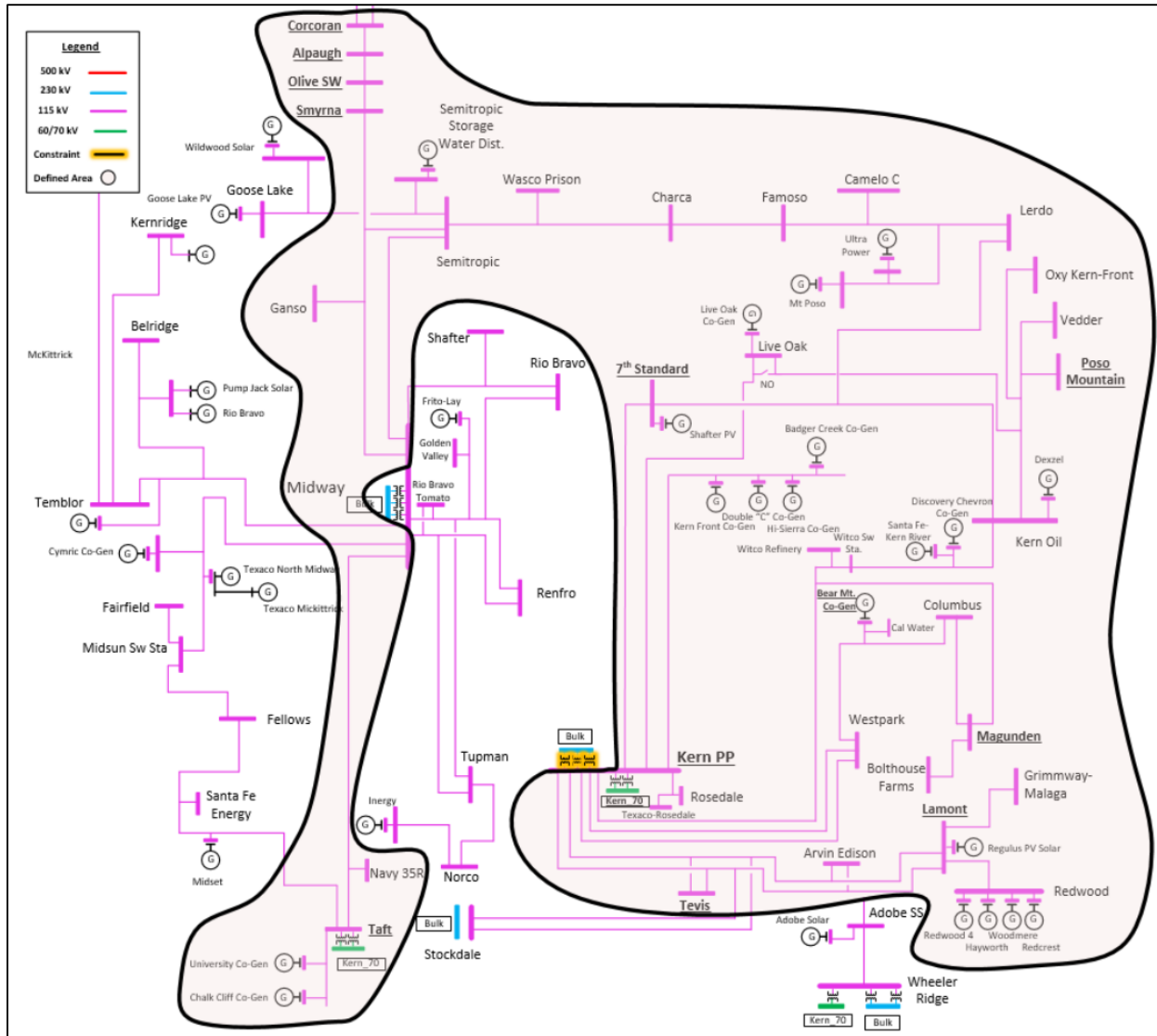
Midway-Q2005 230kV line On-Peak/Off-Peak Constraint



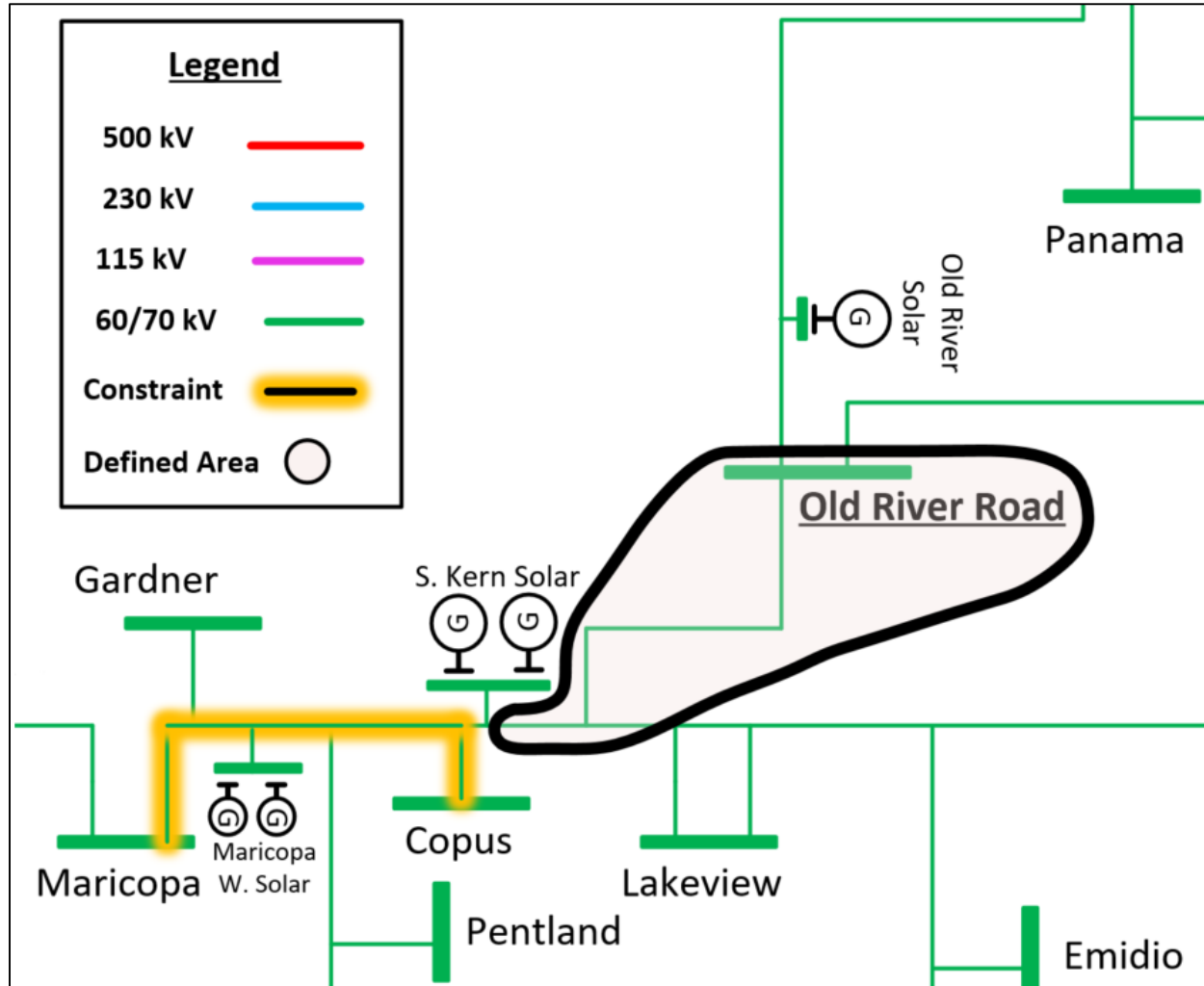
Smyrna - Q1984 115kV line On-Peak/off-Peak Constraint



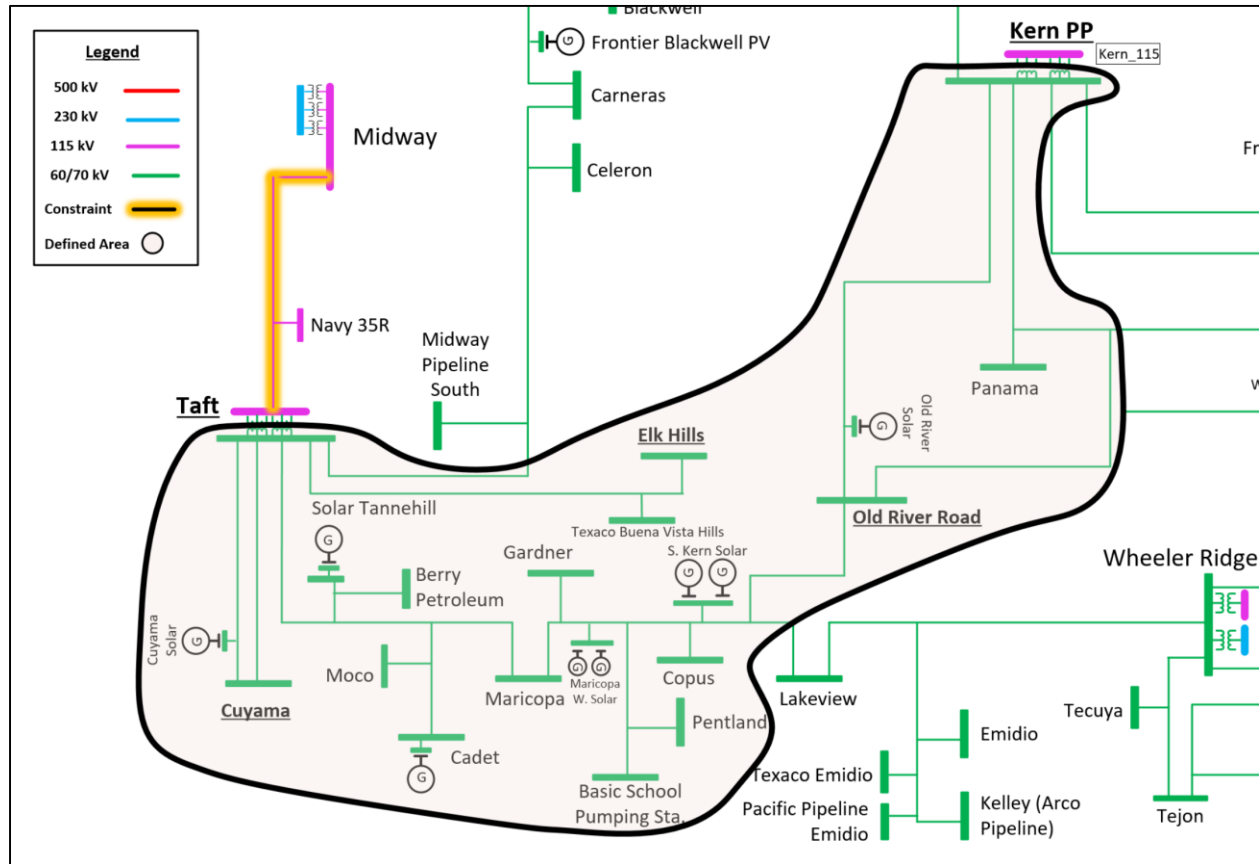
Kern 230/115kV TB #4 On-Peak Constraint



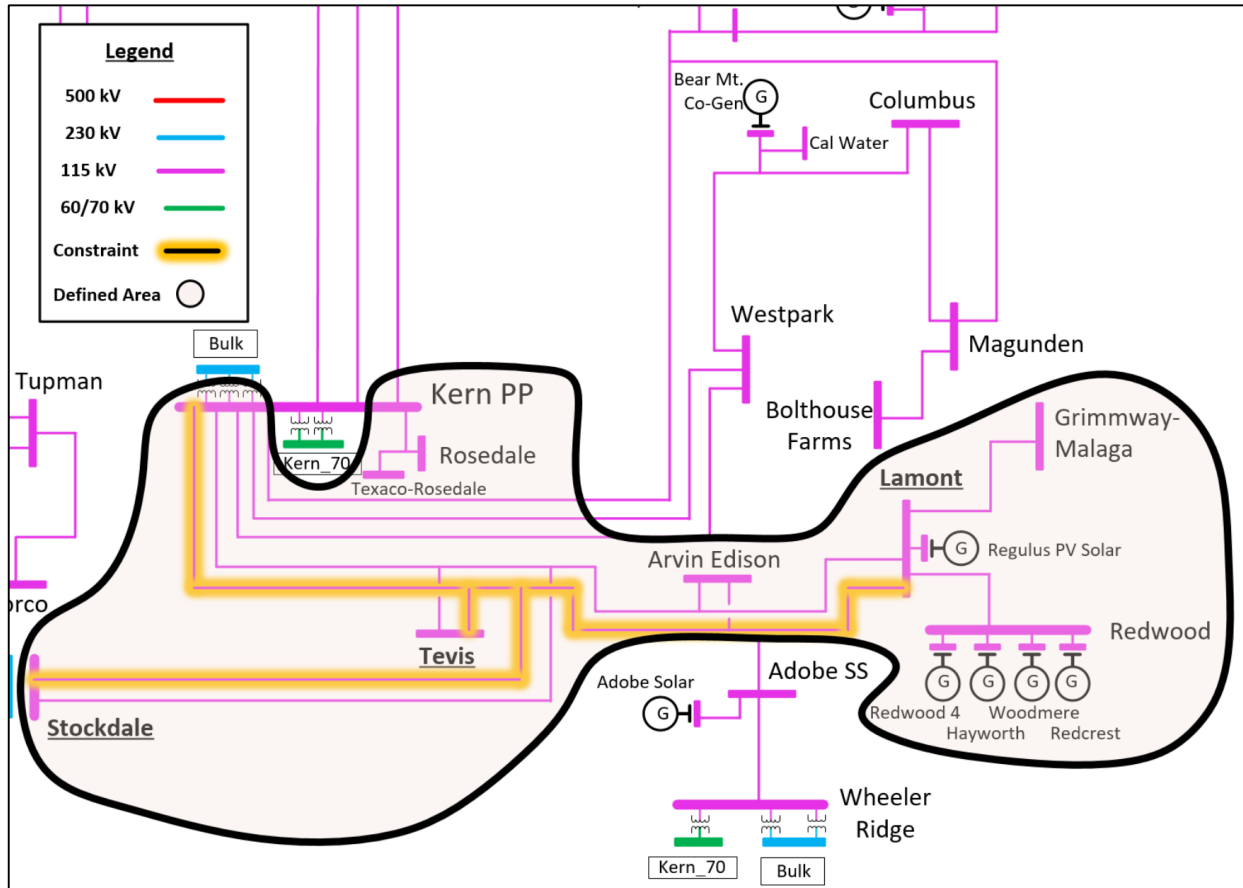
Maricopa-Copus 70 kV line On-Peak/Off-Peak Constraint



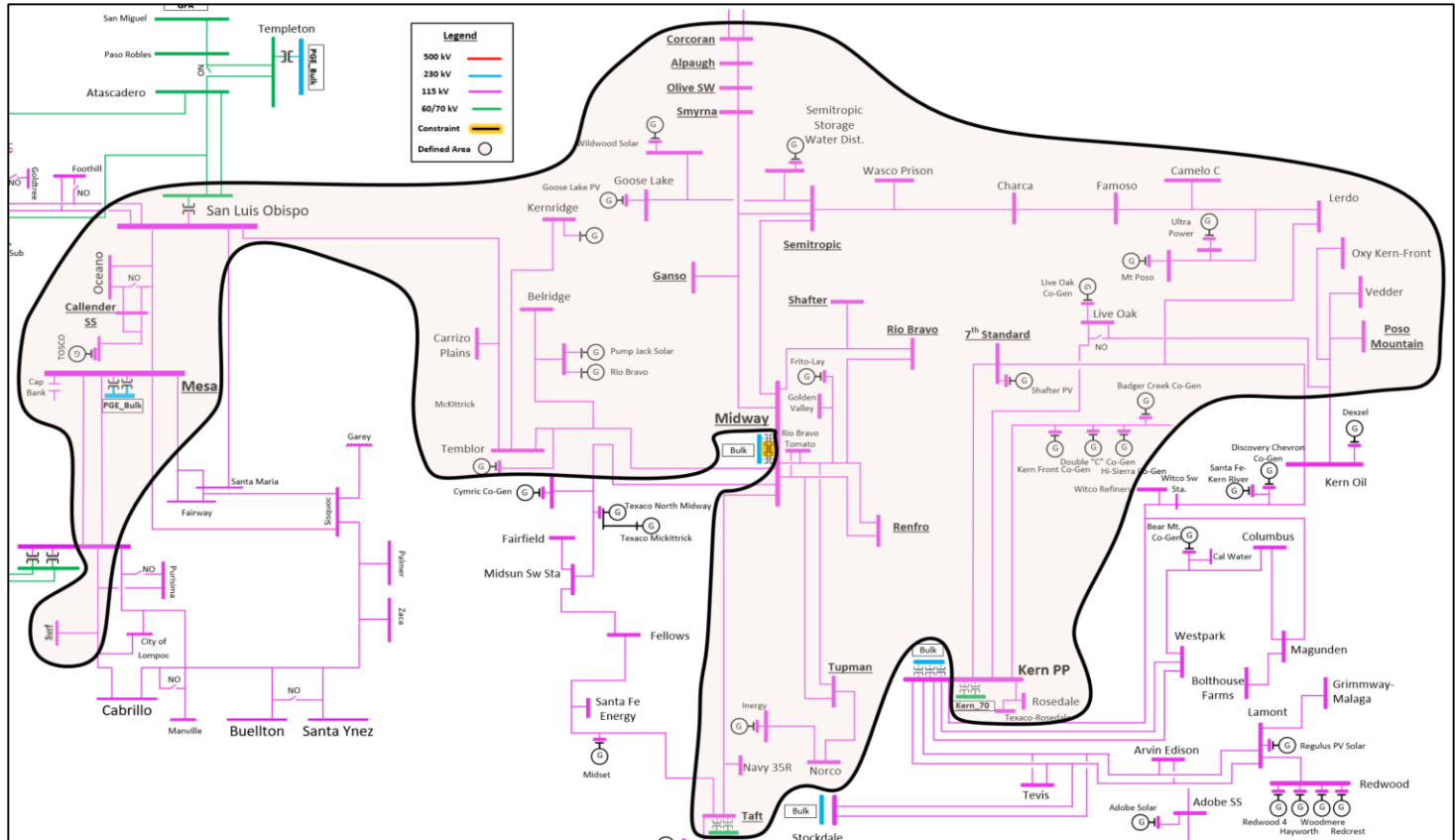
Midway-Taft 115 kV line On-Peak/Off-Peak Constraint



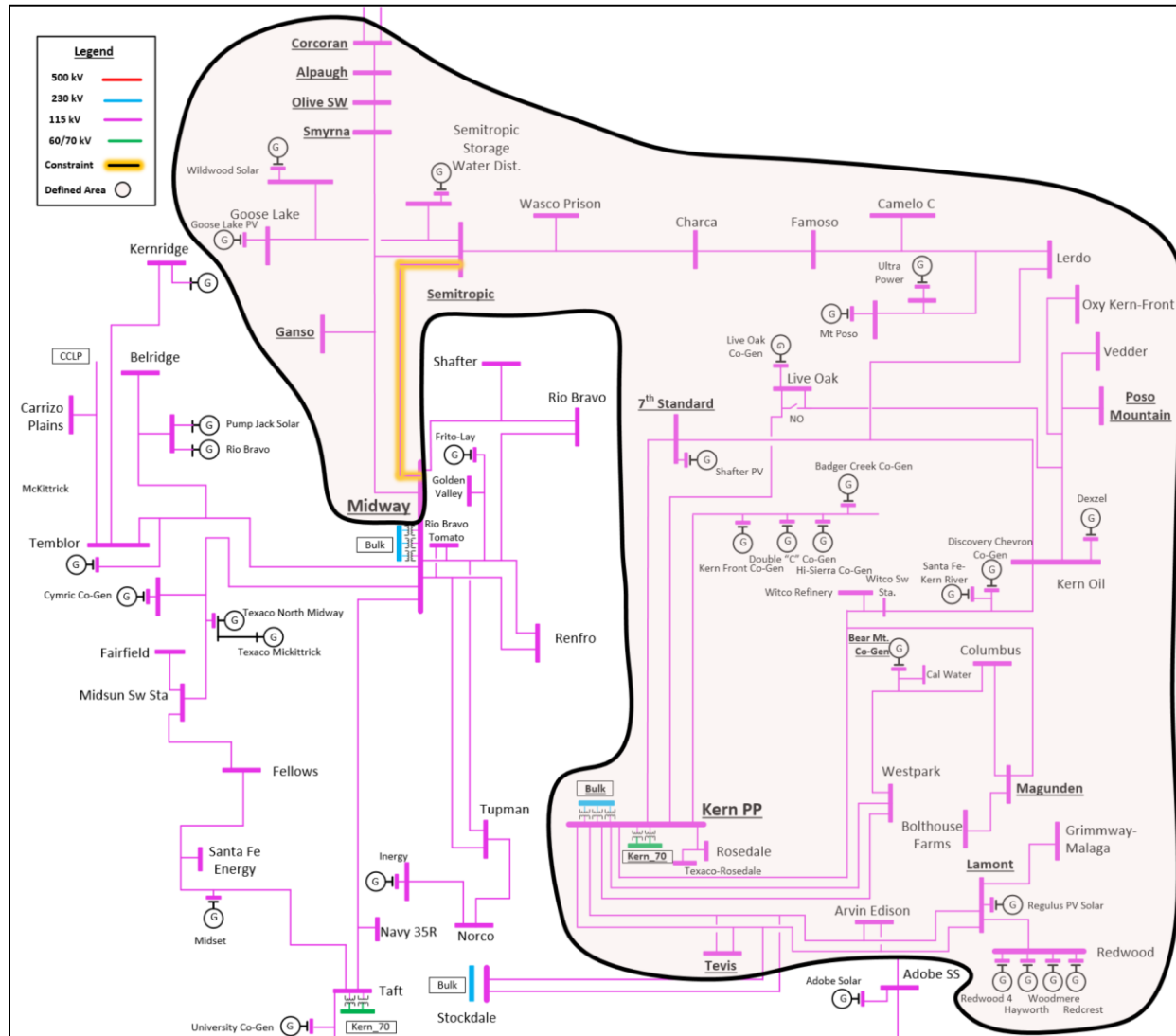
Kern-Tevis-Stockdale-Lamont 115kV line On-Peak/Off-Peak Constraint



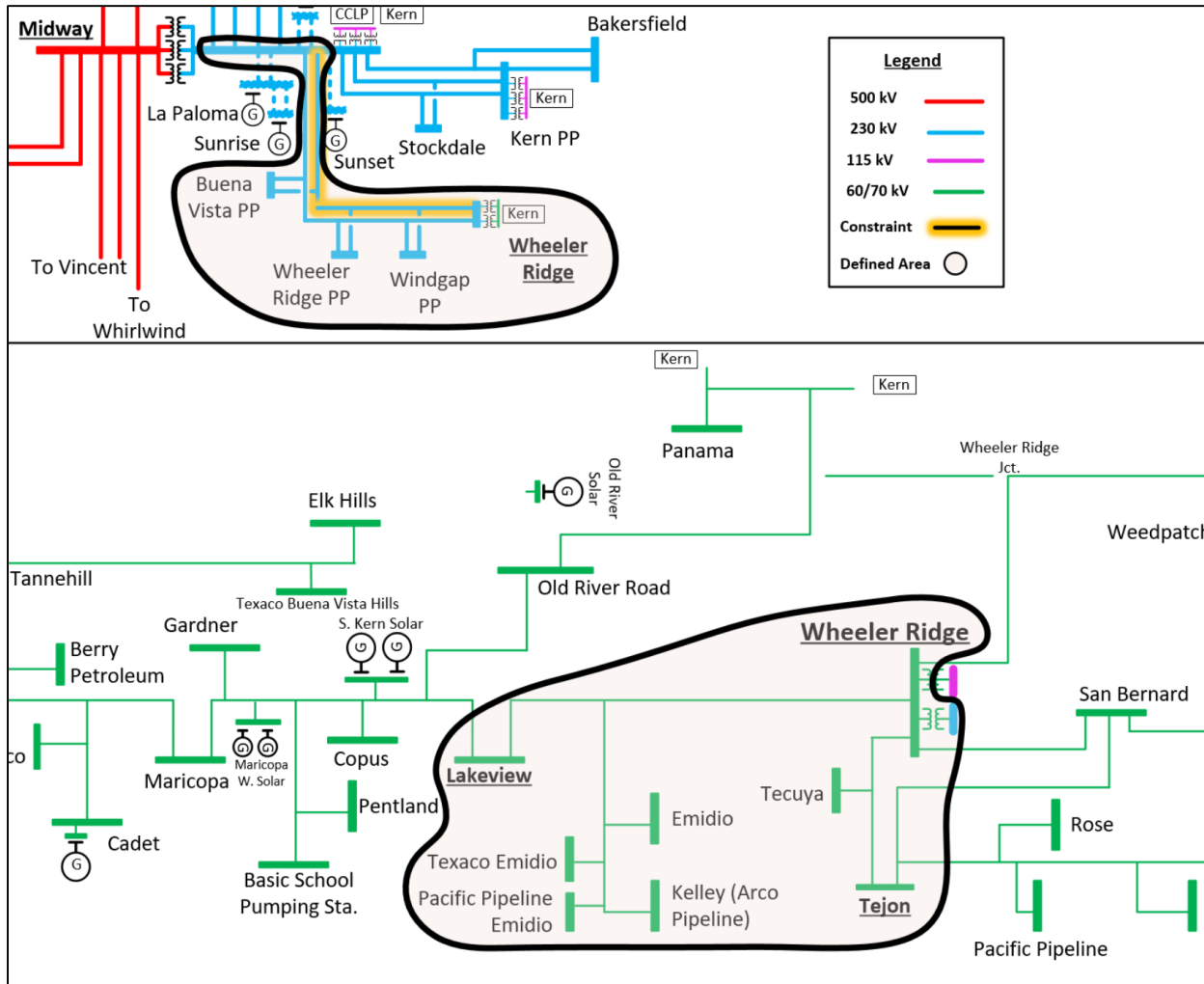
Midway 230/115kV TB #3 On-Peak/Off-Peak Constraint



Semitropic-Midway 115kV Line On-Peak/Off-Peak Constraint

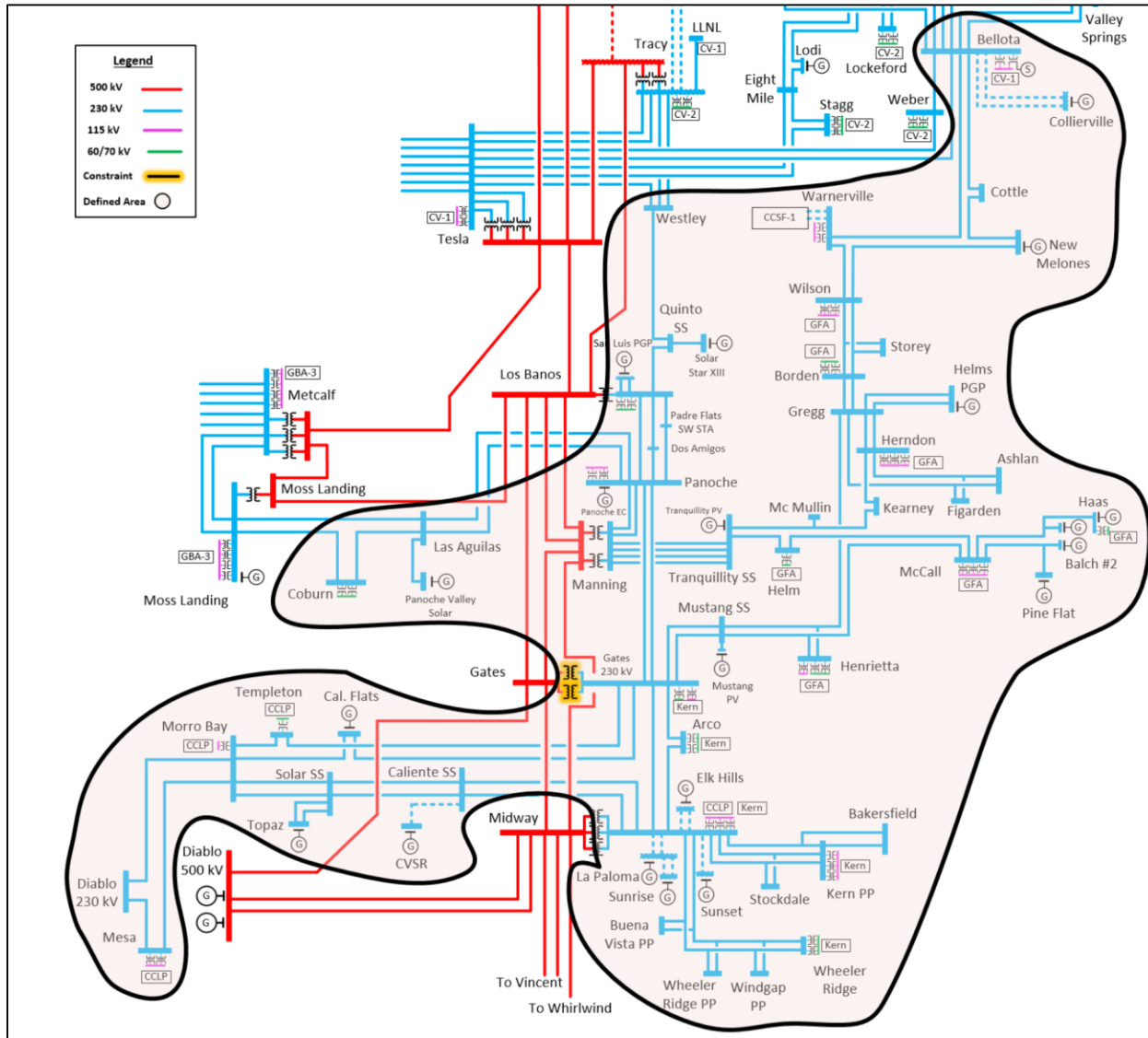


Midway-Q2011 230 kV Line On-Peak Constraint

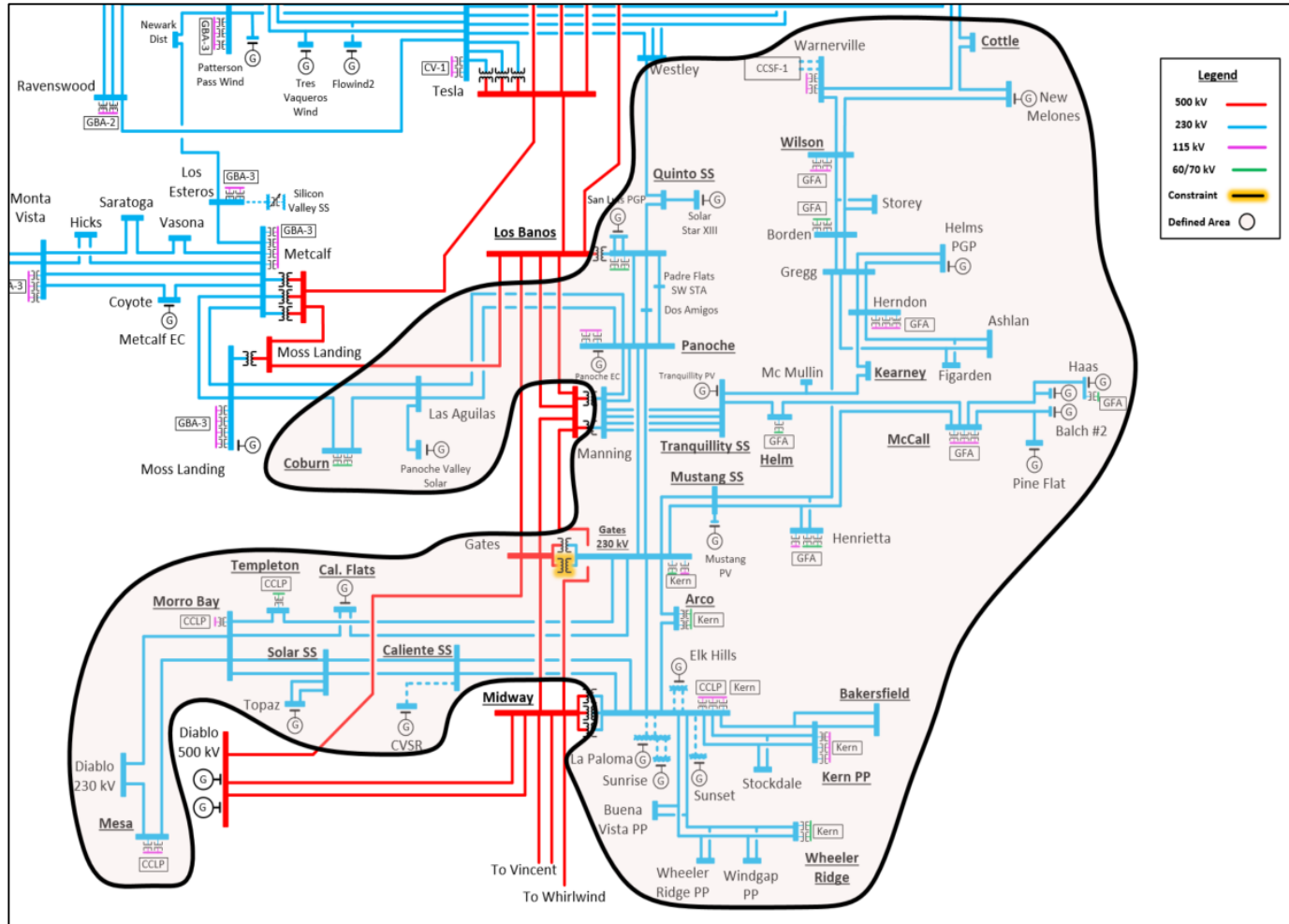


PG&E Fresno Interconnection Area Deliverability Constraints

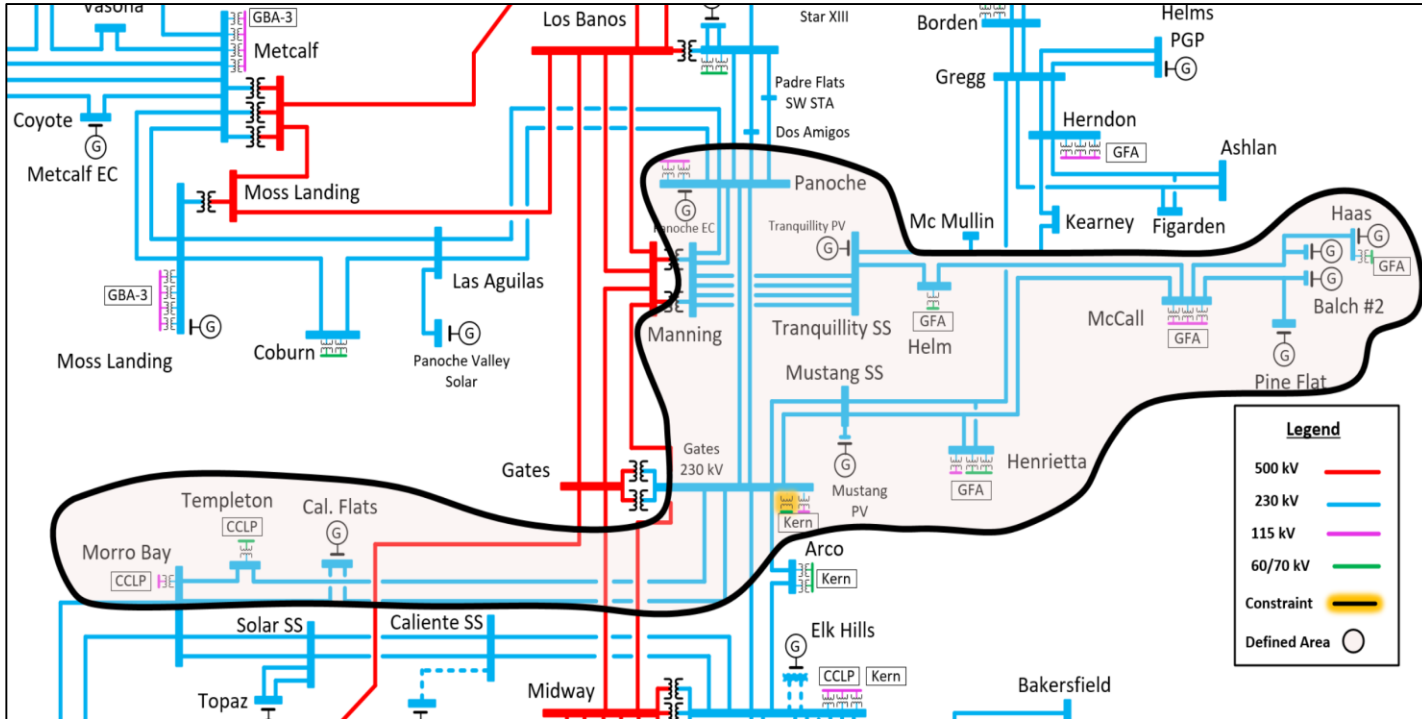
Gates 500/230kV TB #12 On-Peak/Off-Peak Constraint



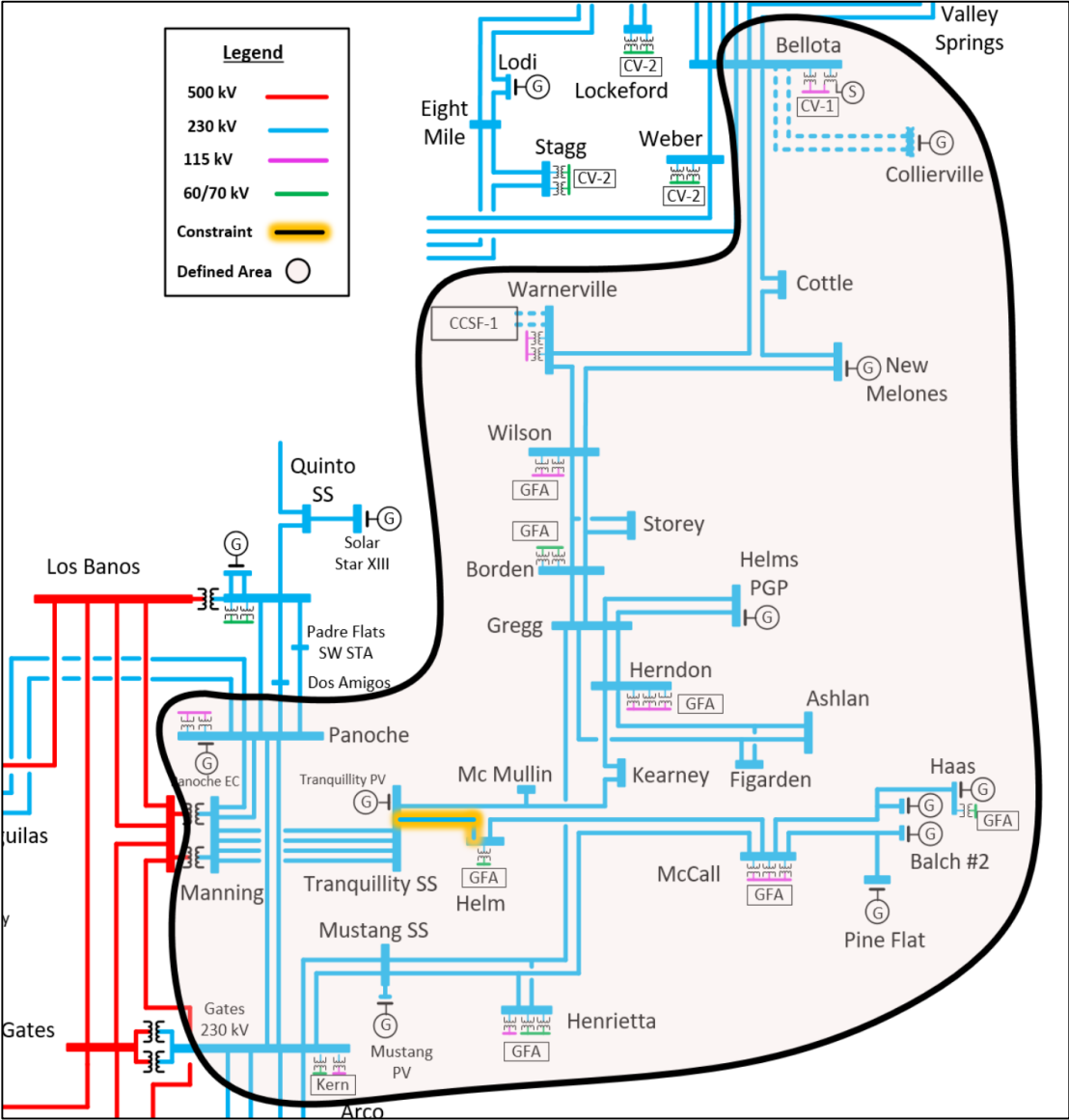
Gates 500/230kV TB #11 On-Peak/Off-Peak Constraint



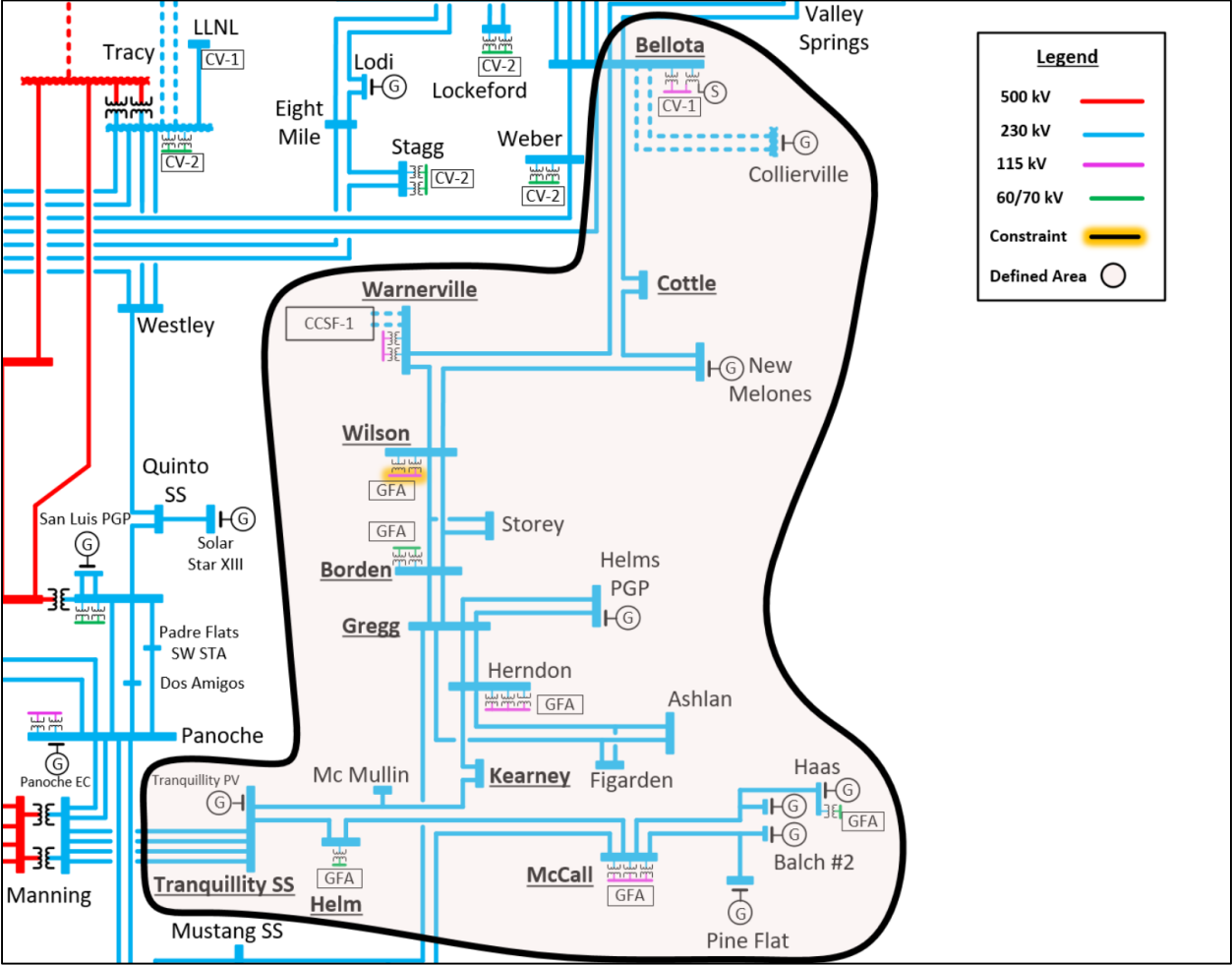
Gates 230/70 kV TB #5 On-Peak/Off-Peak Constraint



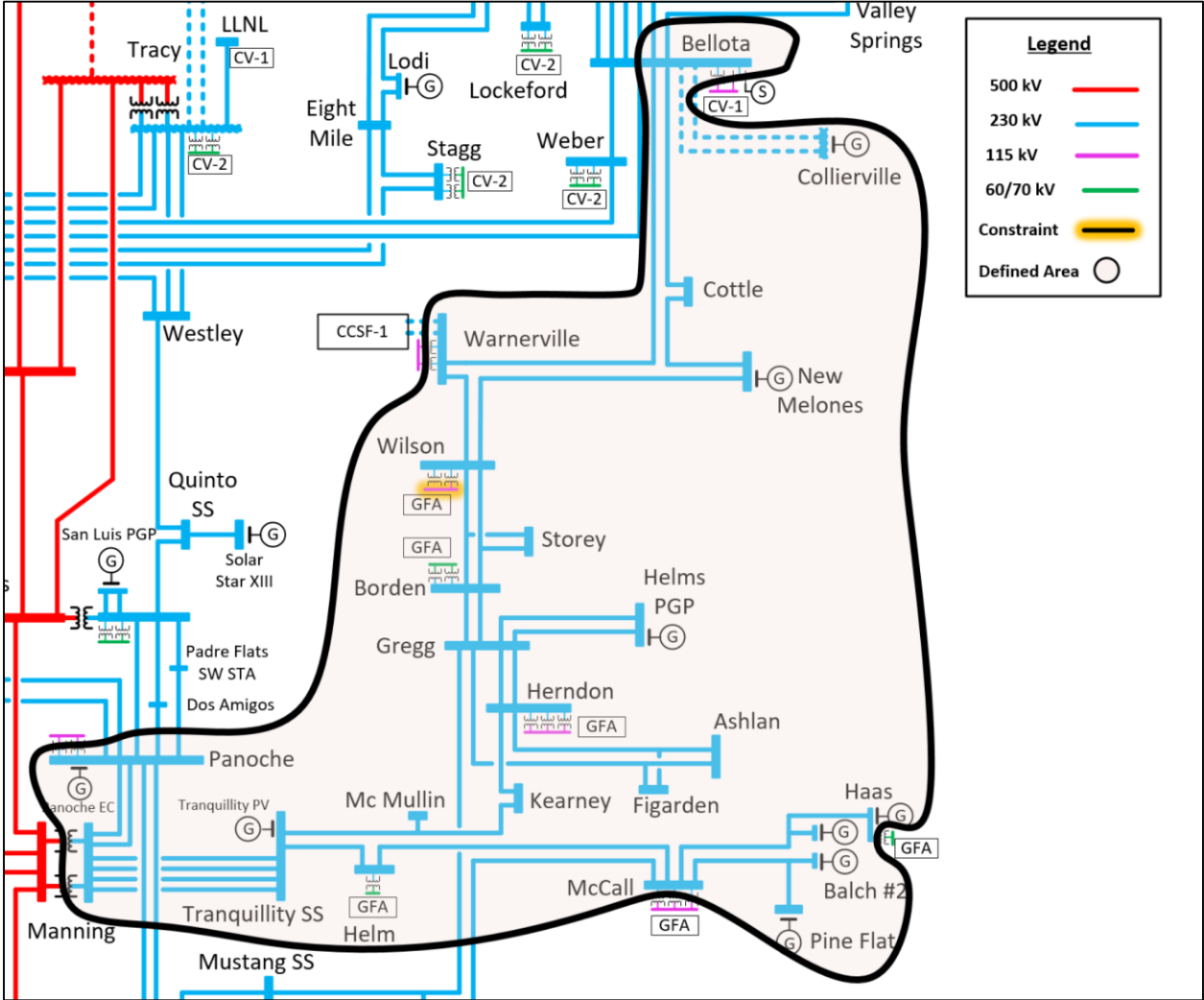
Tranquility-Helm 230kV Line On-Peak/Off-Peak Constraint



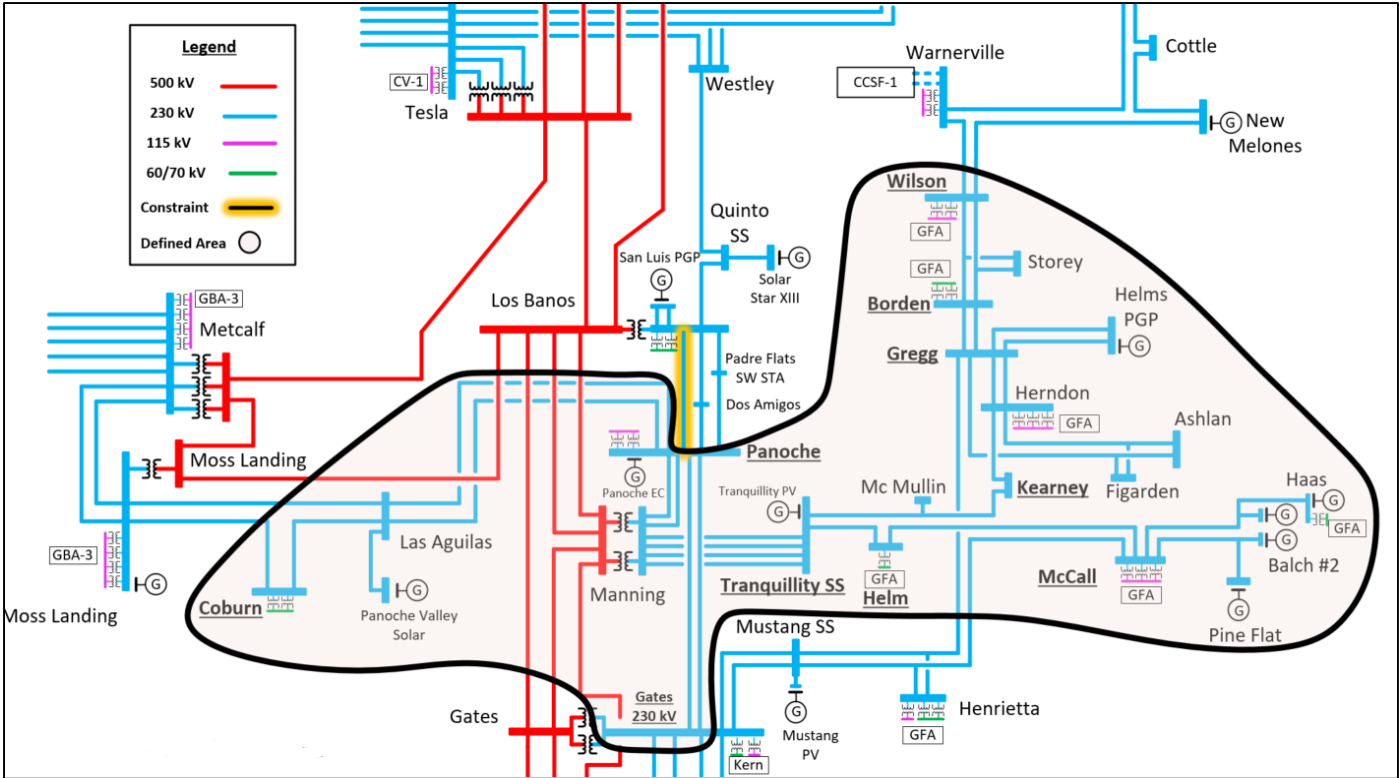
Dairyland-Chowchilla 115kV Line On-Peak/Off-Peak Constraint



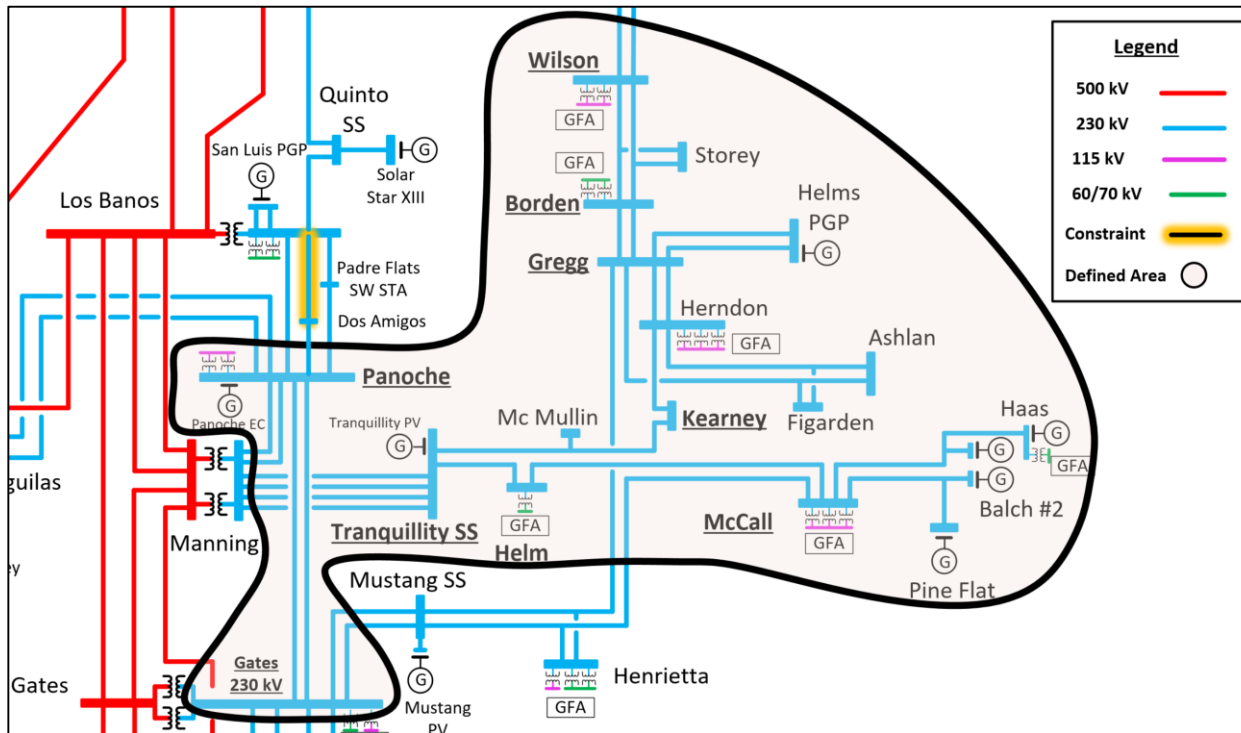
Chowchilla-Le grand 115kV Line On-Peak/Off-Peak Constraint



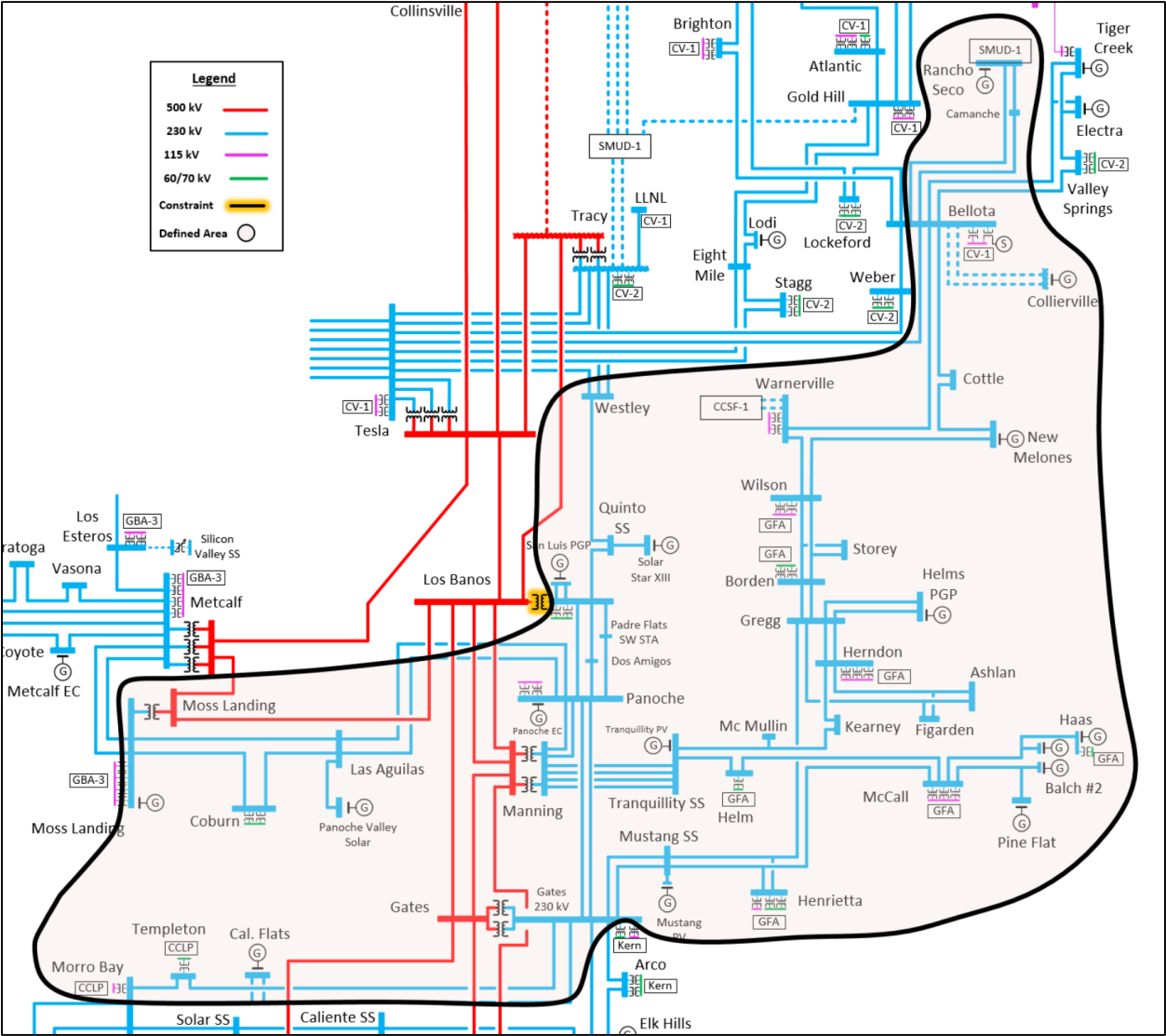
Panoche-Los Banos 230kV line #2 On-Peak/Off-Peak Constraint



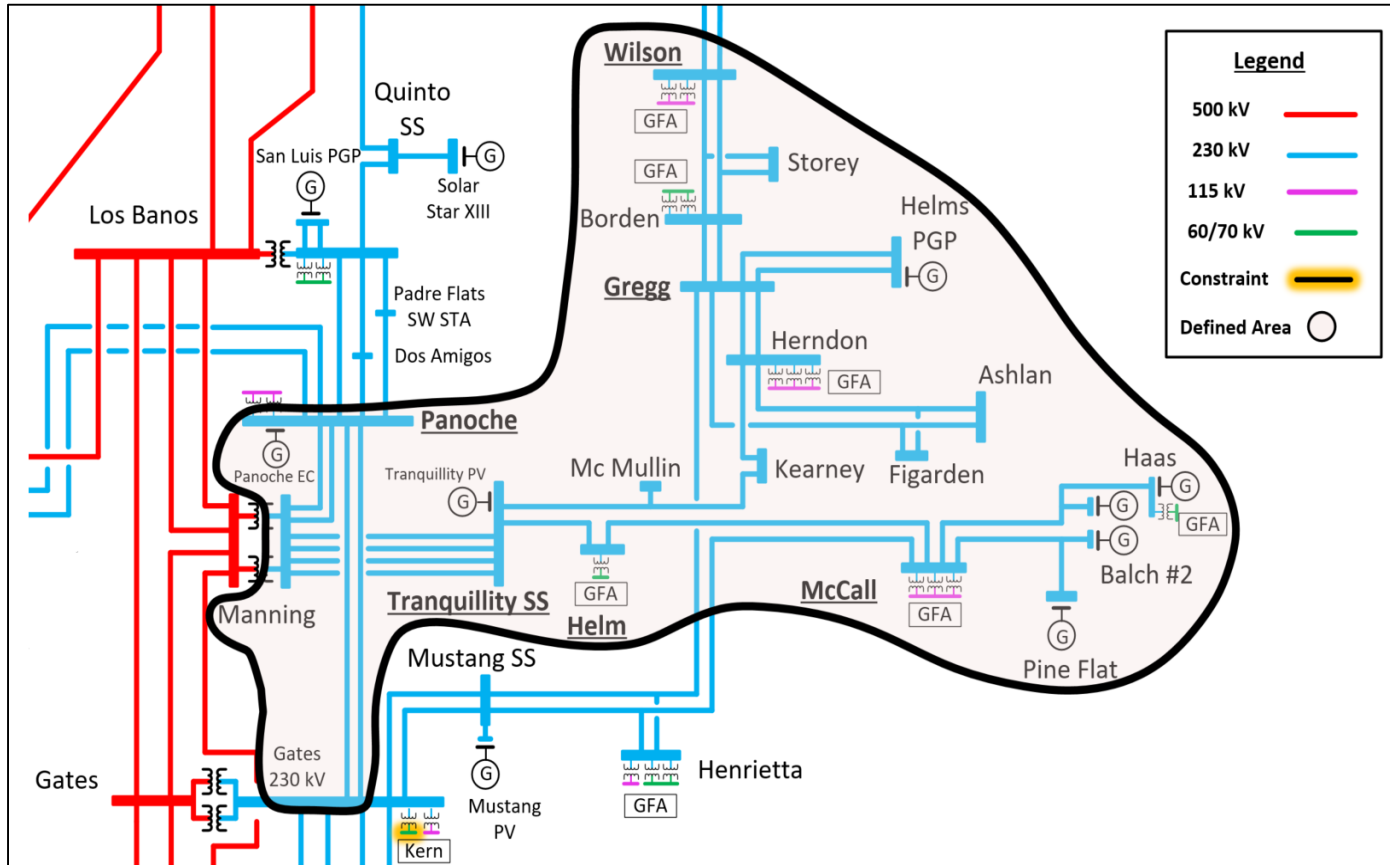
Dos Amigos-Los Banos 230kV line On-Peak Constraint



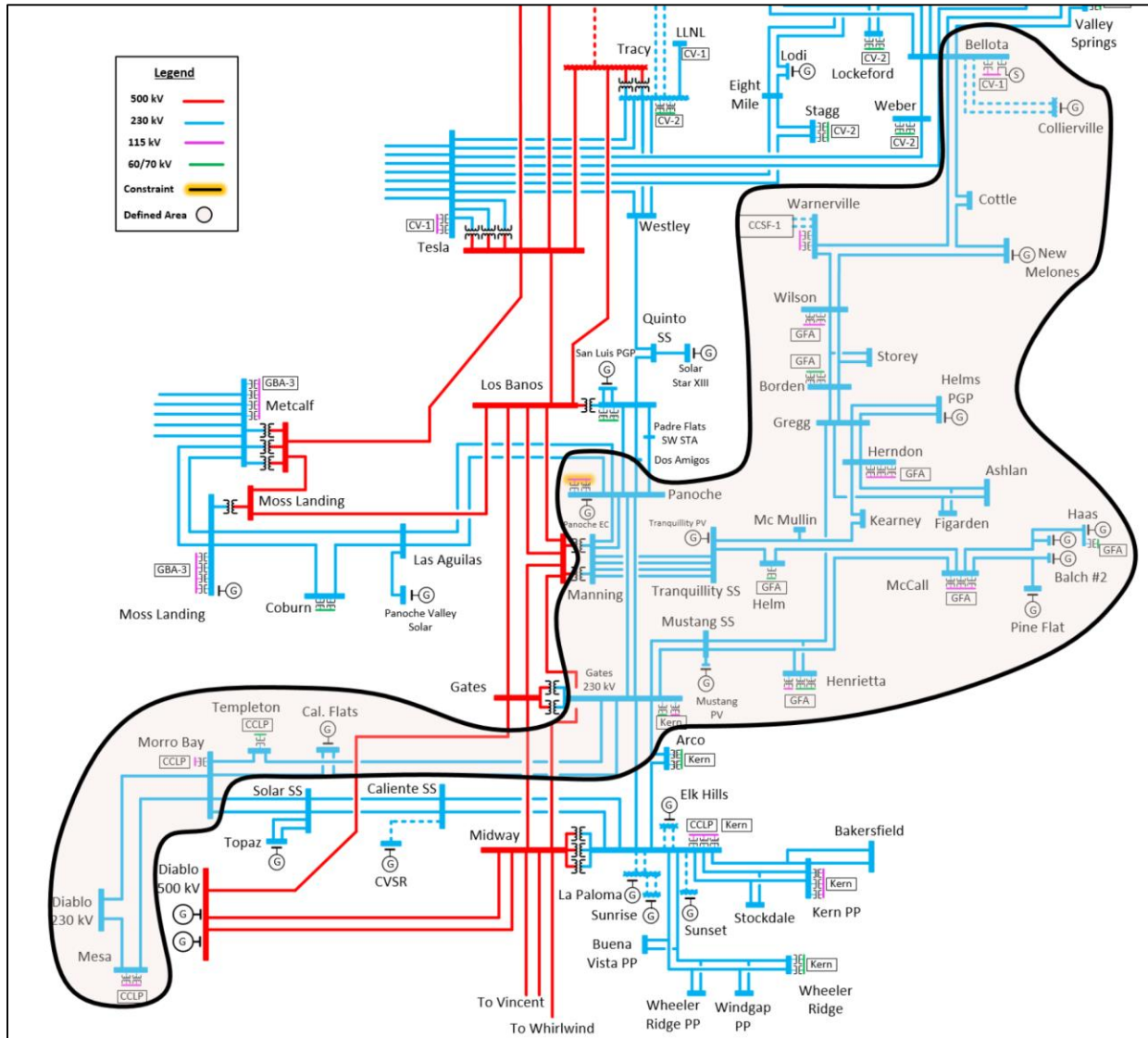
Los Banos 500/230 kV Bank On-peak/Off-peak Constraint



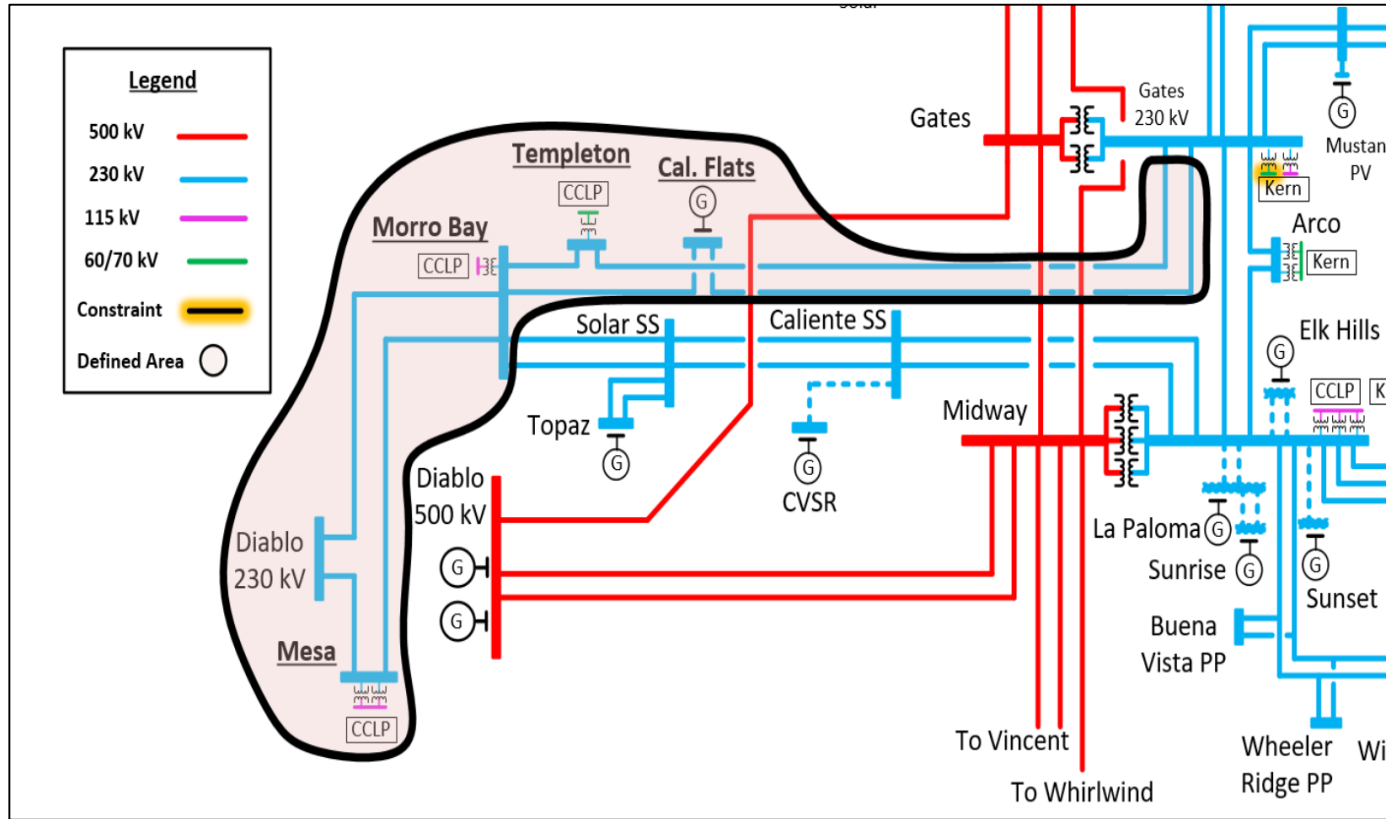
Schindler 115/70kV kV #1 Bank On-Peak/Off-peak Constraint



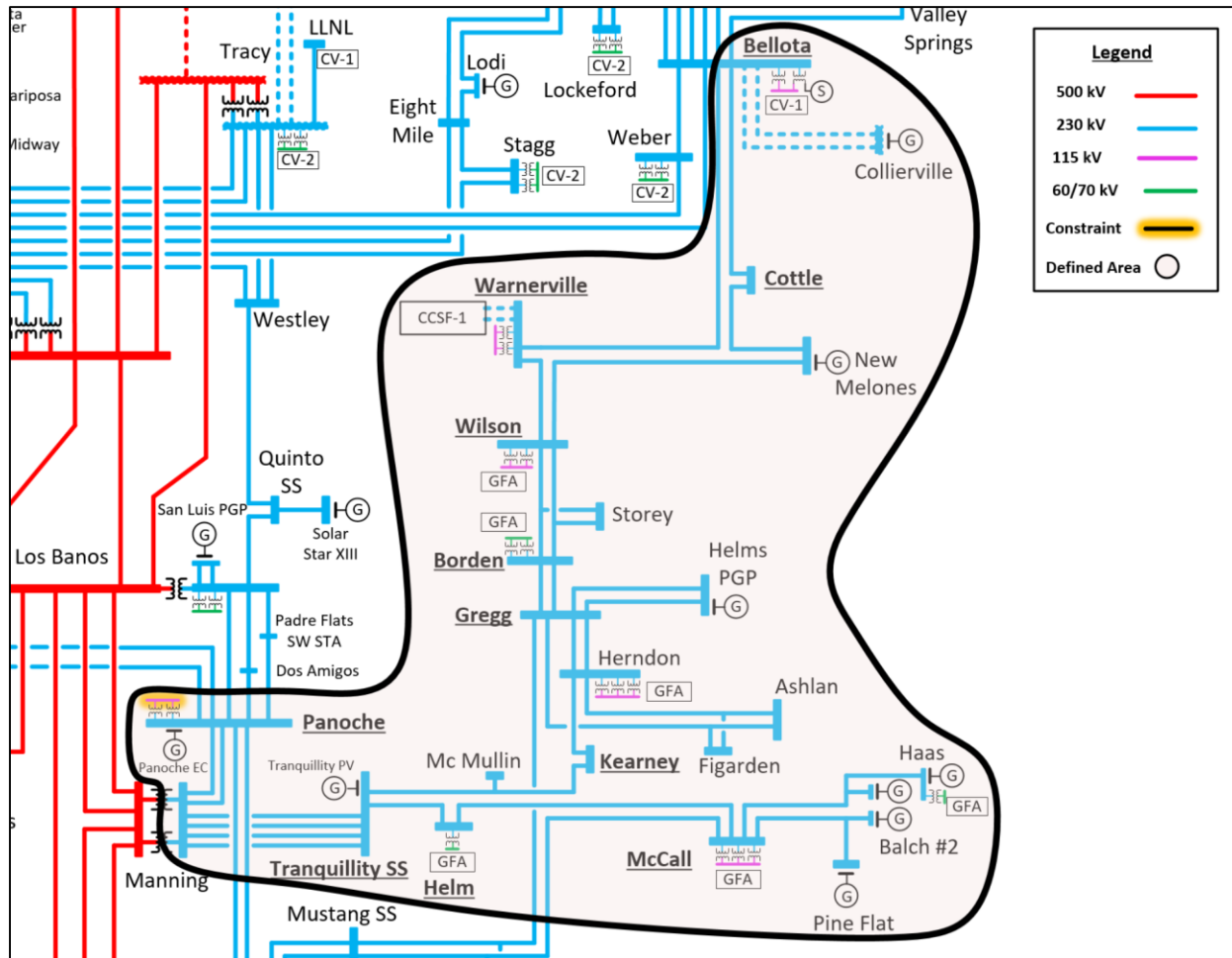
Panoche-Mendota 115 kV line On-Peak/Off-Peak Constraint



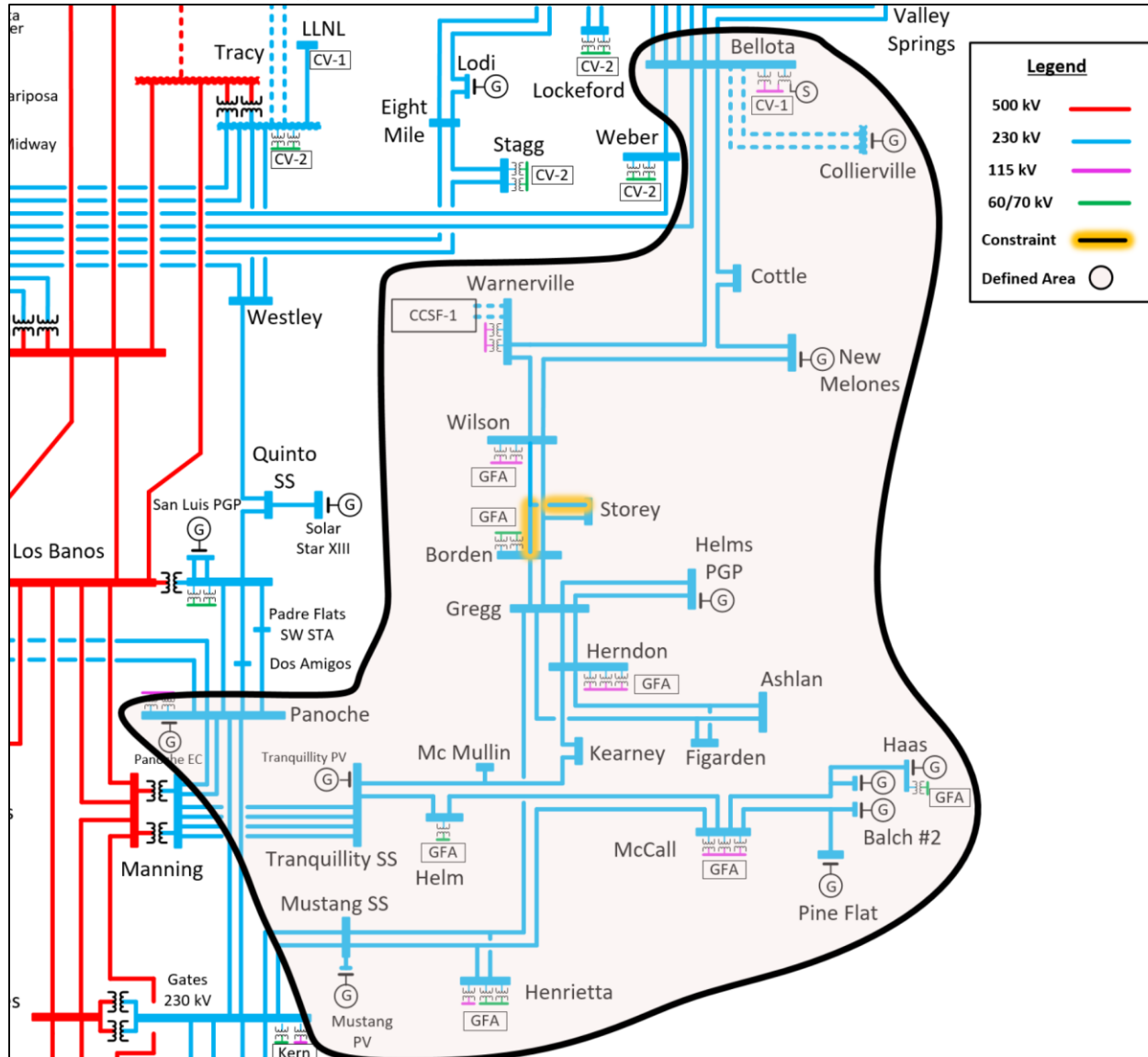
Coalinga #1-Coalinga #2 70 kV line On-Peak/Off-Peak Constraint



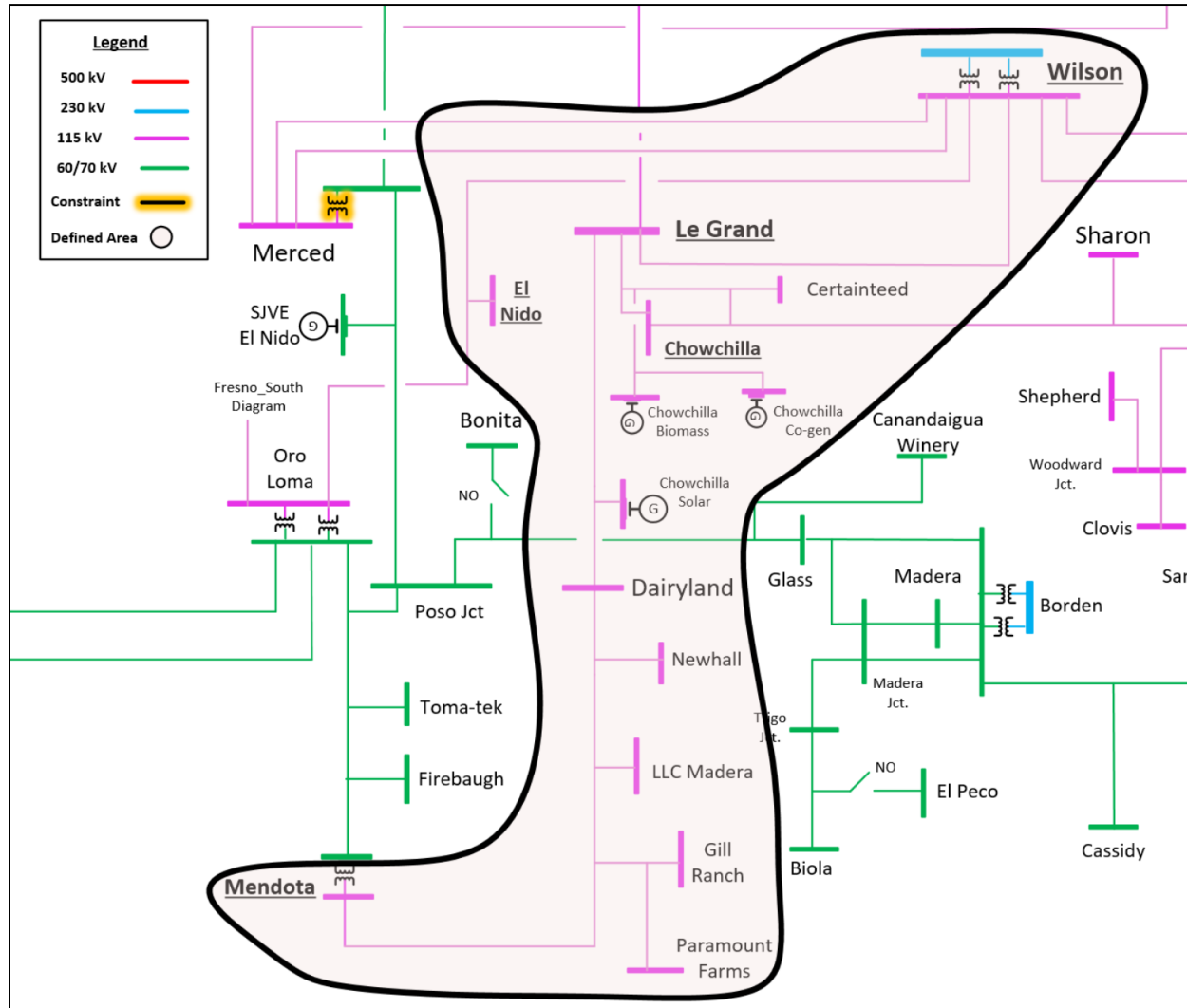
Panoche-Oro Loma 115kV Line On-Peak Constraint



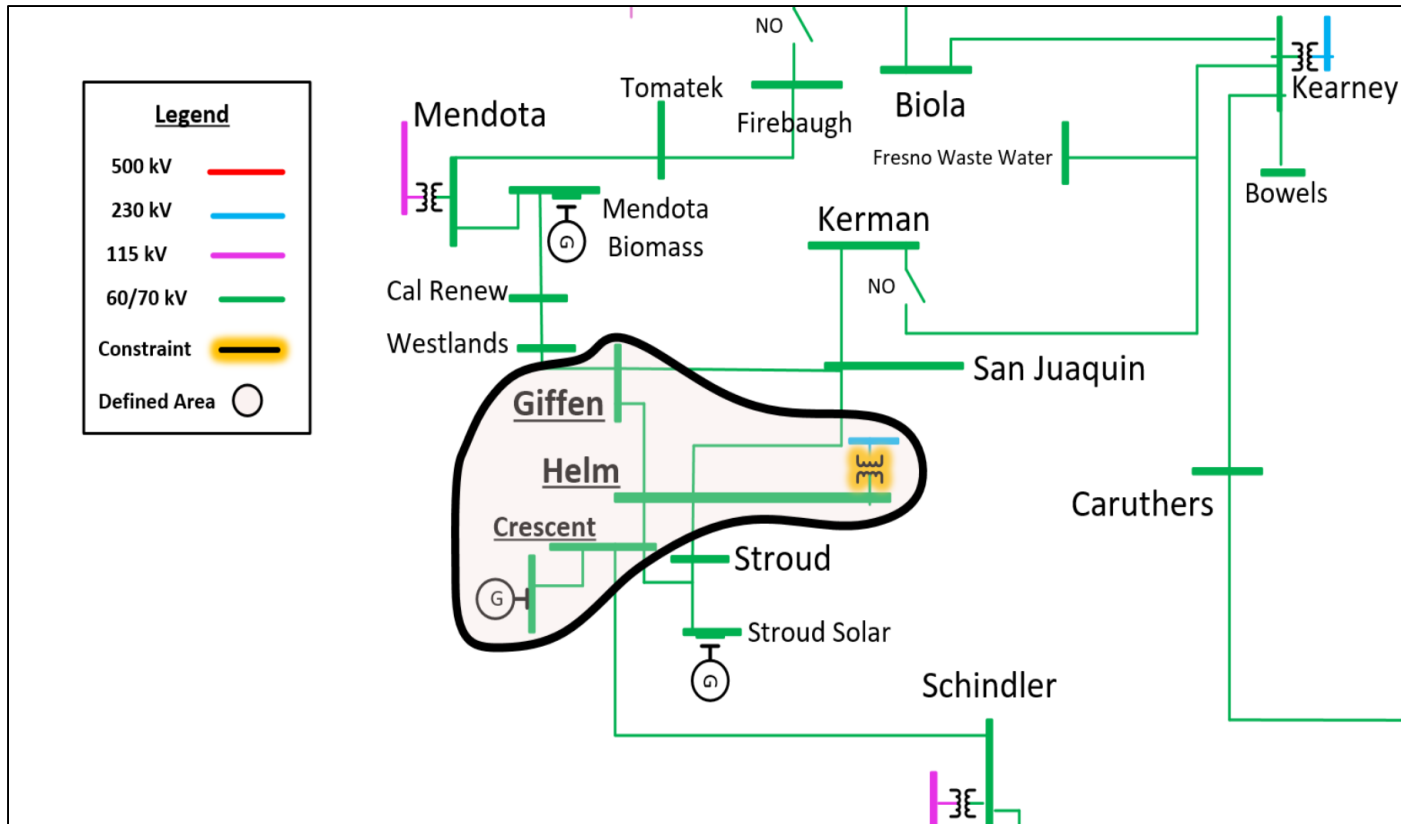
Borden-Storey #1 230kV line On-Peak/Off-Peak Constraint



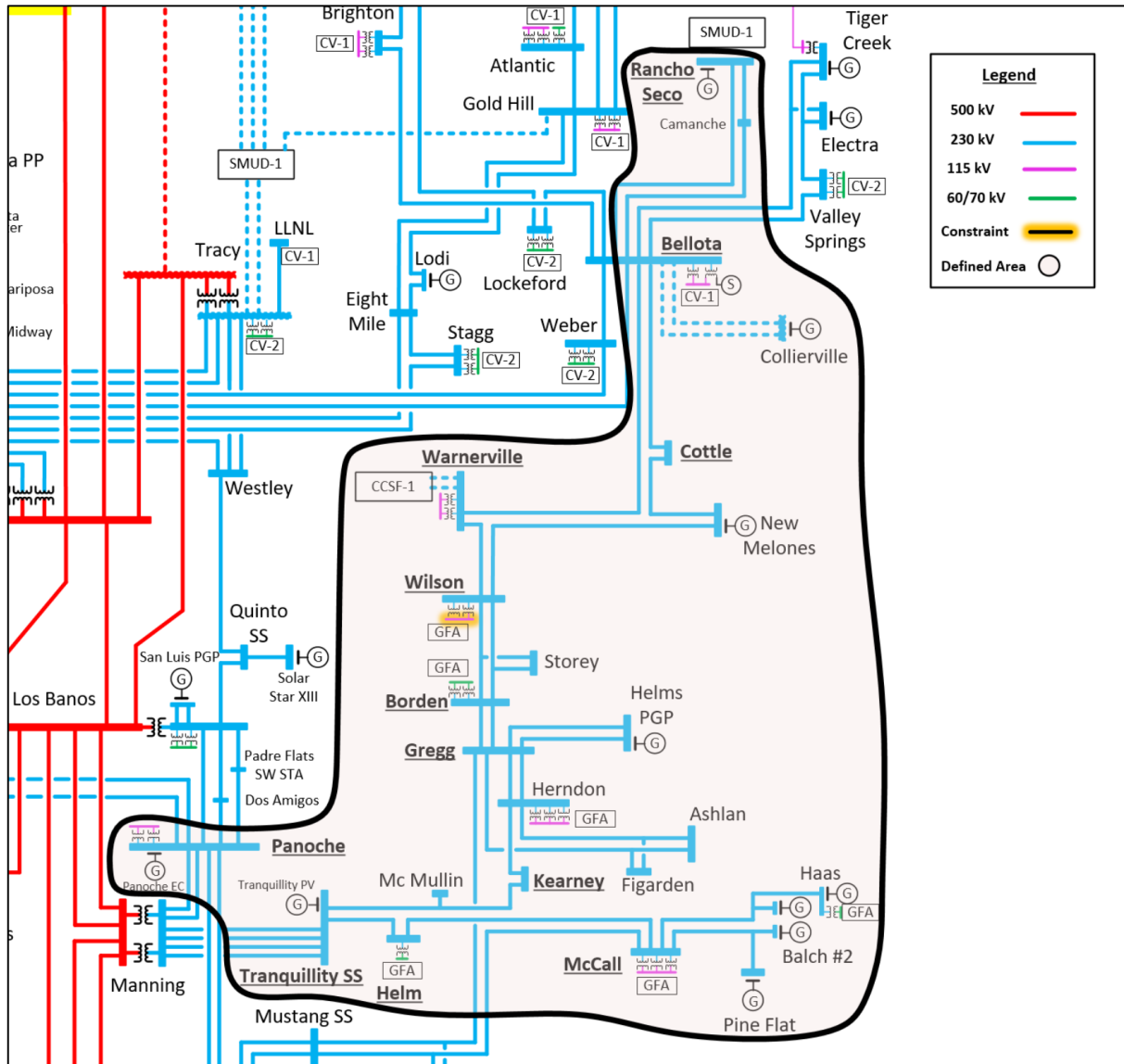
Merced 115/70kV TB#2 On-Peak/Off-Peak Constraint



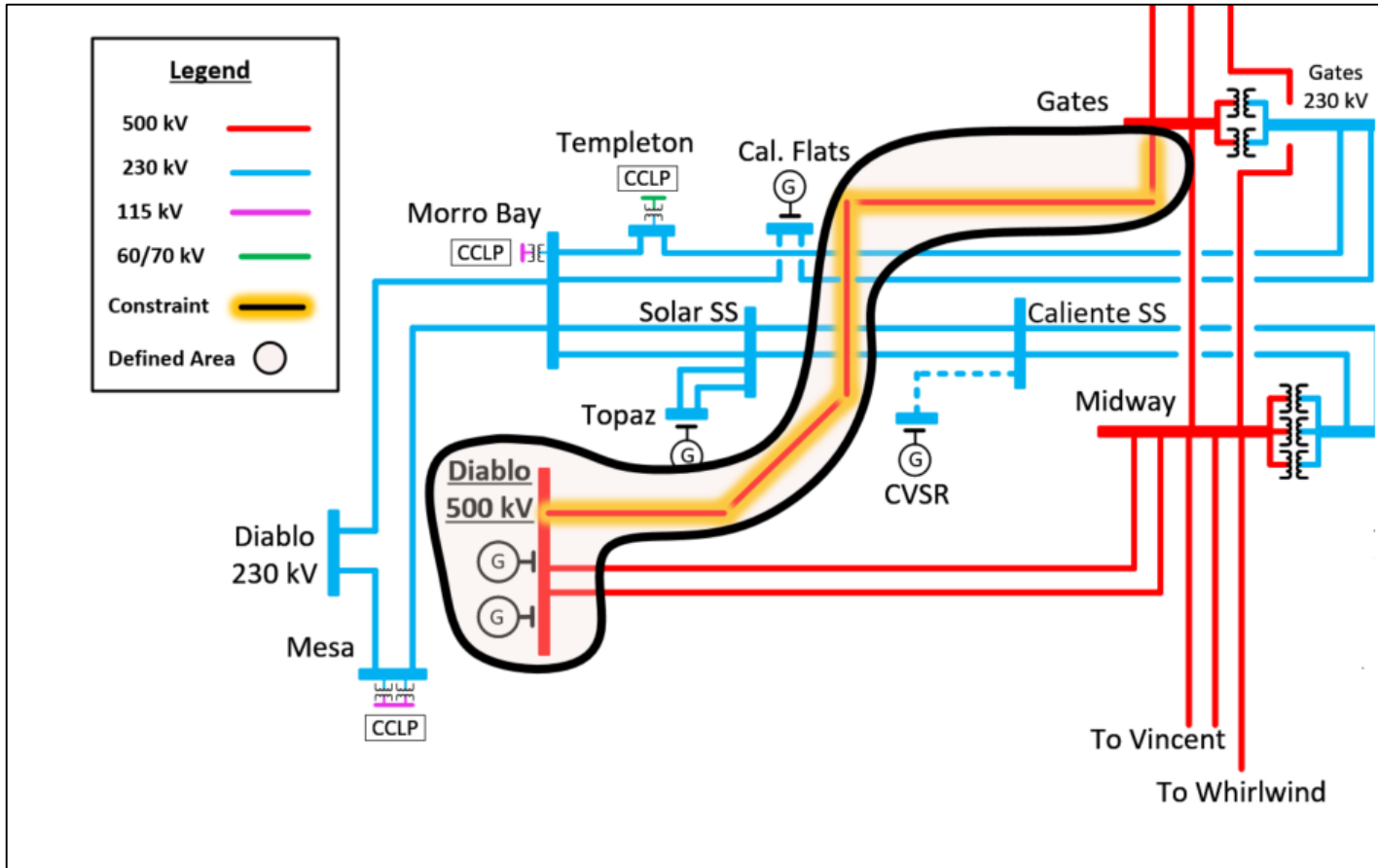
Helm 230/70kV TB#1 On-Peak/Off-Peak Constraint



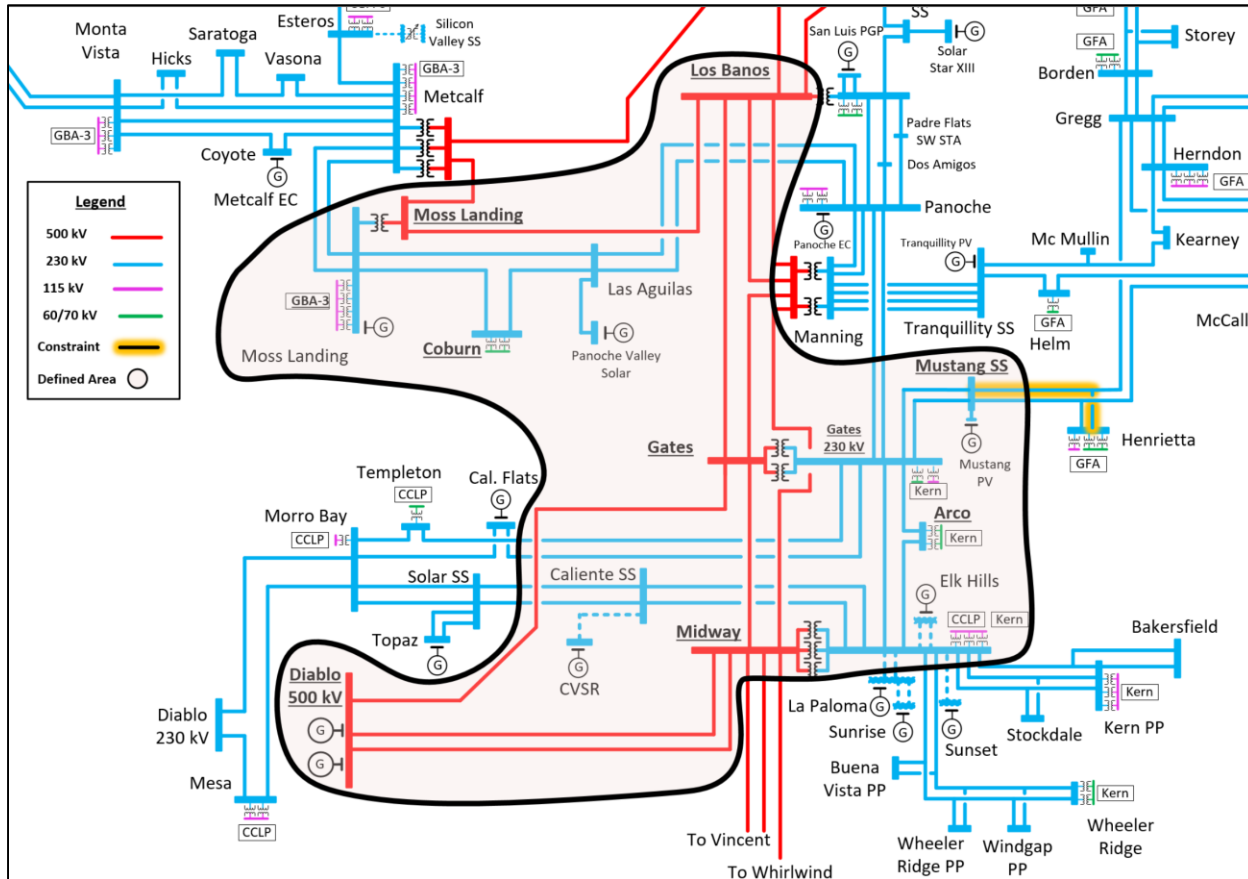
Oro Loma-El Nido 115kV Line On-Peak/Off-Peak Constraint



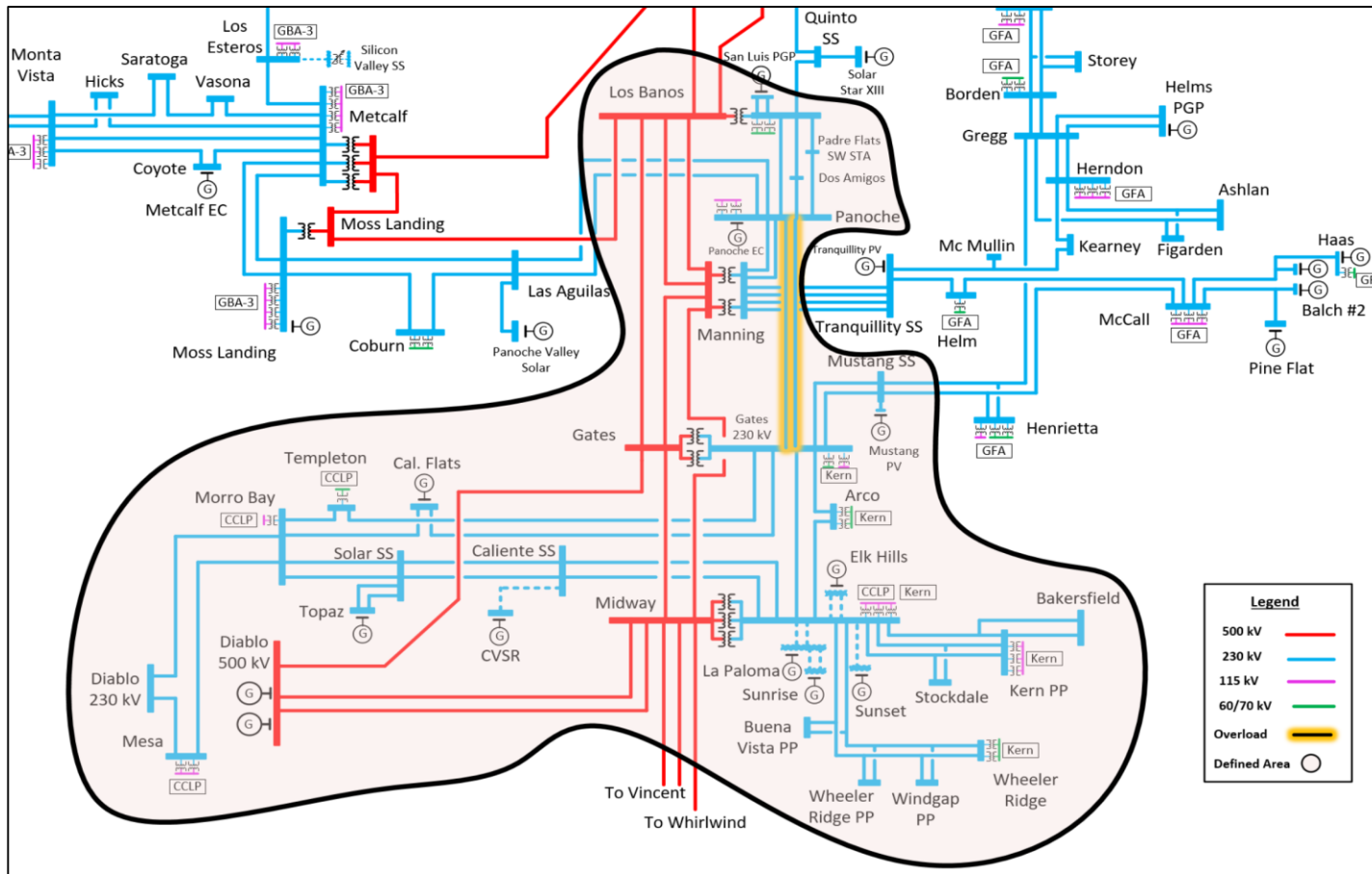
Q2008-Gates 500 kV line On-Peak/Off-peak Constraint



Mustang-Henrietta 230 kV line On-Peak Constraint

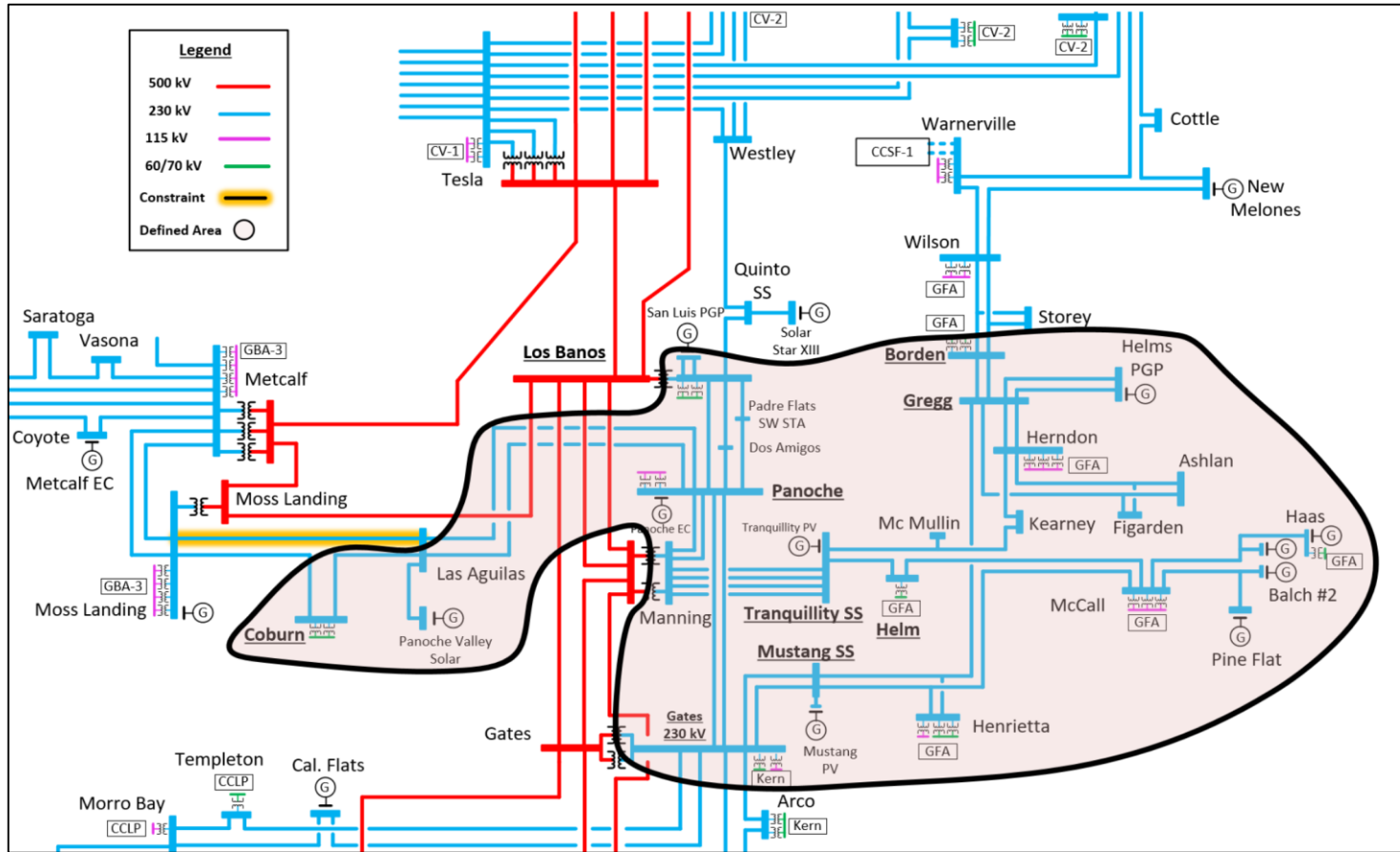


Gates-Panoche 230 kV #1 and #2 Lines On-Peak Constraint



PG&E Fresno Interconnection Area Off-Peak Deliverability Constraints

Moss Landing-Las Aguillas 230 kV Line Off-Peak Constraint



Jackson-Waukena-Corcoran 115 kV Line Off-Peak Constraint

