

# **Colorado River Transmission Planning Committee**

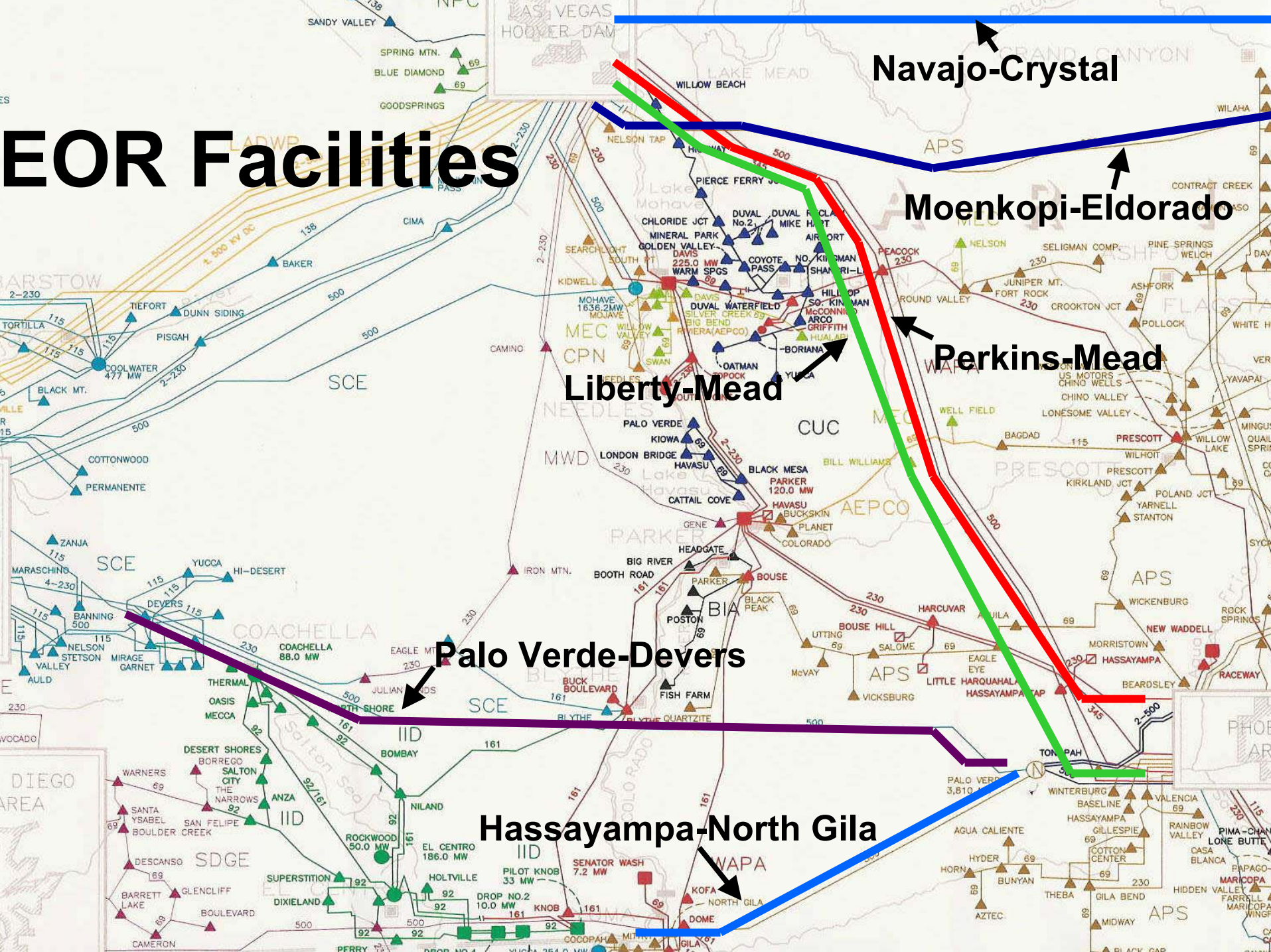
## **Status Update**

**STEP – February 9, 2005**

# **Path 49 – East of River Facilities**

- **Navajo-Crystal**
- **Moenkopi-Eldorado**
- **Perkins-Mead**
- **Liberty-Mead (345kV)**
- **Palo Verde-Devers**
- **Hassayampa-North Gila**

# EOR Facilities



# East of River Facilities Line Participants

- **Navajo-Crystal**
  - Nevada Power Company
  - Los Angeles DWP
  - U.S. Bureau of Reclamation (CAP)
- **Moenkopi-Eldorado**
  - Southern California Edison

# East of River Facilities Line Participants

- **Perkins-Mead**

- Western Area Power Administration
- Southern California Public Power Authority
- Salt River Project
- Arizona Public Service
- Modesto-Santa Clara-Redding
- City of Vernon

# East of River Facilities Line Participants

- **Liberty-Mead (345kV)**
  - Western Area Power Administration
- **Palo Verde-Devers**
  - Southern California Edison
- **Hassayampa-North Gila**
  - Arizona Public Service
  - Imperial Irrigation District
  - San Diego Gas & Electric

# EOR Facilities - Path Allocation

• APS	376 MW	5%
• BOR (CAP)	356	5
• LADWP	695	9
• IID	163	2
• MSR	150	2
• NPC	371	5
• <b>SDG&amp;E</b>	<b>970</b>	<b>13</b>
• <b>SCE</b>	<b>3,105</b>	<b>41</b>
• SCPPA	238	3
• SRP	236	3
• Vernon	28	1
• Western	862	11

# EOR EHV Projects

- **Path 49 Upgrades**
  - 505 MW Increase
- **Palo Verde-Devers 2**
  - 1,200 MW Increase
- **EOR 9000+**
  - 1,245 MW Increase

# Path 49 Upgrade

- Project Sponsor: California ISO
- Increase Thermal Capacity of Series Caps. on DPV2 and SWPL.
- Increase EOR by 505 MW
- Allocation (MW)
  - APS 28
  - IID 32
  - SCE/ISO 253
  - SDG&E/ISO 192

# Palo Verde-Devers 2

- Project Sponsor: SCE
- New Line from Harquahala GS to Devers
- Increase EOR 1,200 MW
- Allocation:
  - SCE (ISO) 1,200 MW

# EOR 9000+

- Project Sponsor: Salt River Project
- Upgrade Series Cap. on Mead-Perkins and Navajo Crystal Lines. By-Pass Phase-Shifters at Perkins.
- Increase EOR 1,245 MW
- Allocation:
  - TBD – Potential Sharing Among the 12 Current EOR Allot tees

# Additional EHV/HV Studies

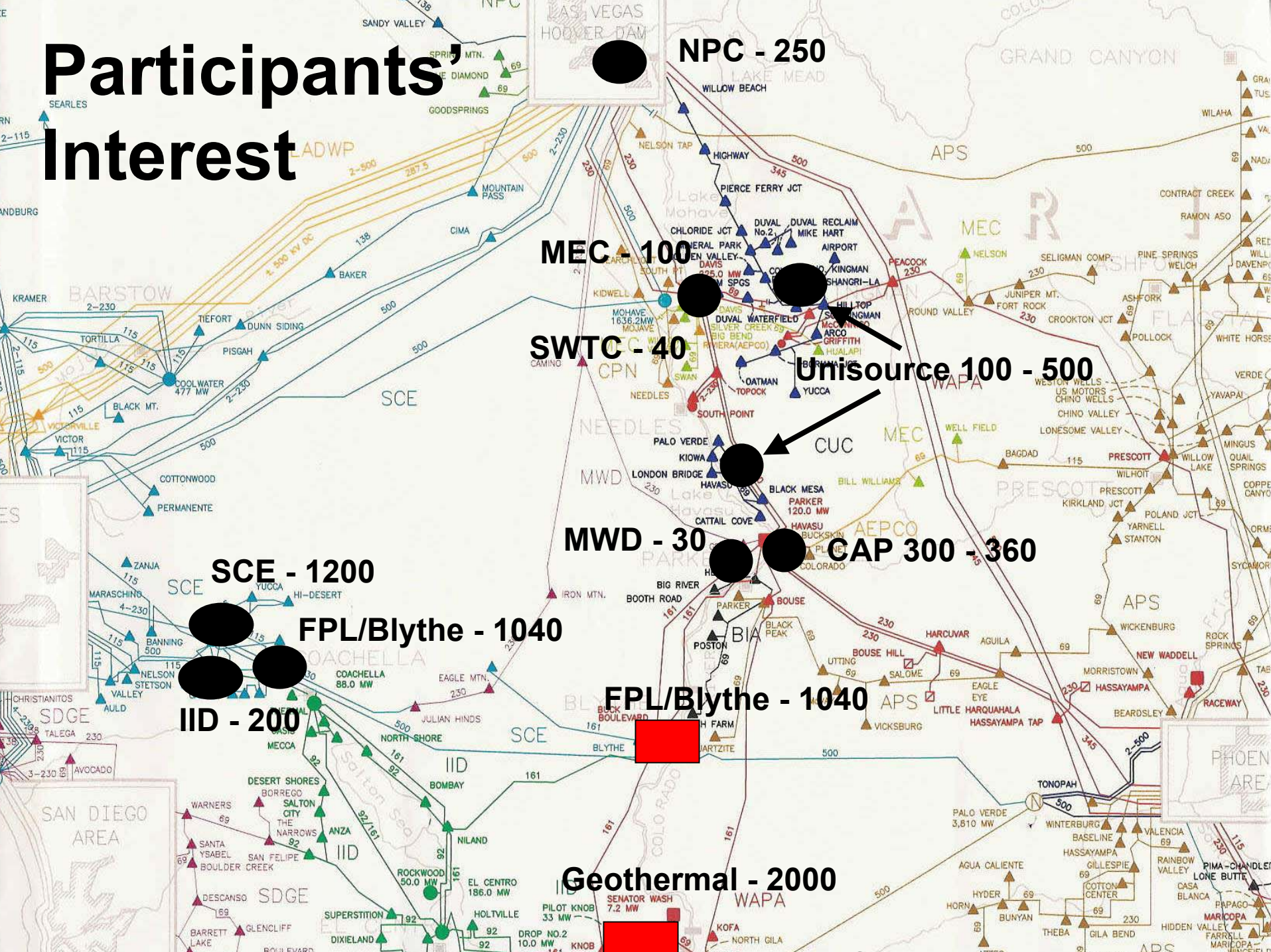
- **CRT Blythe Area Interconnection**
  - Study Interconnection of EHV and HV Systems in Blythe Area. (NPC lead)
- **APS Hassayampa-Yuma Line**
  - APS, IID and SDG&E (APS lead)
- **Western's Colorado River Study**
  - Review of Western's Path A,D and G into Mohave County

# **Additional EHV/HV Studies**

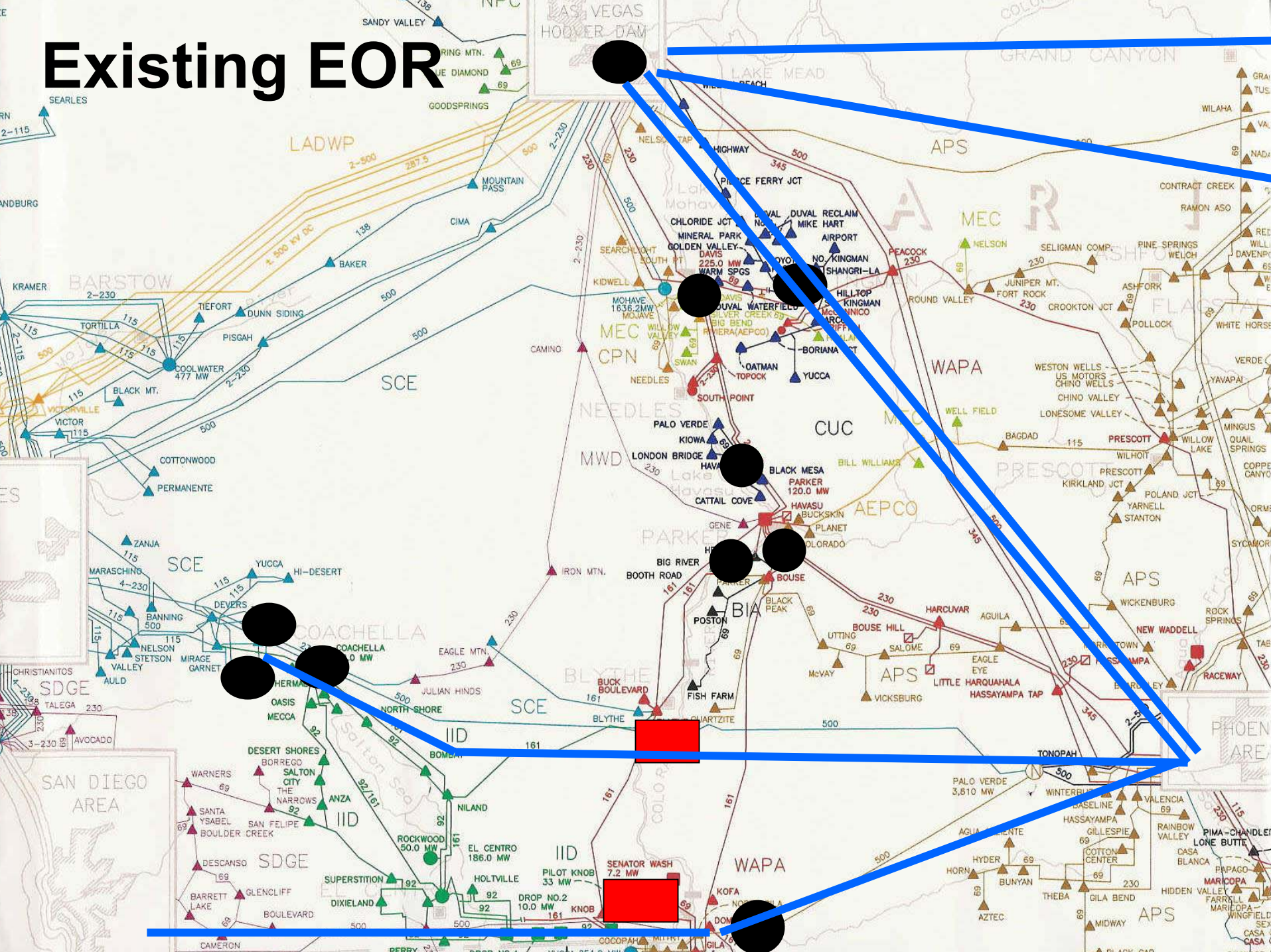
- **Palo Verde-Parker/Gene Circuit**
  - Alternative to Midpoint
- **Imperial Valley Study**
  - Geothermal Exports
- **Desert Southwest Transmission**
  - Blythe-Devers 500kV Circuit

# **CRT OBJECTIVES**

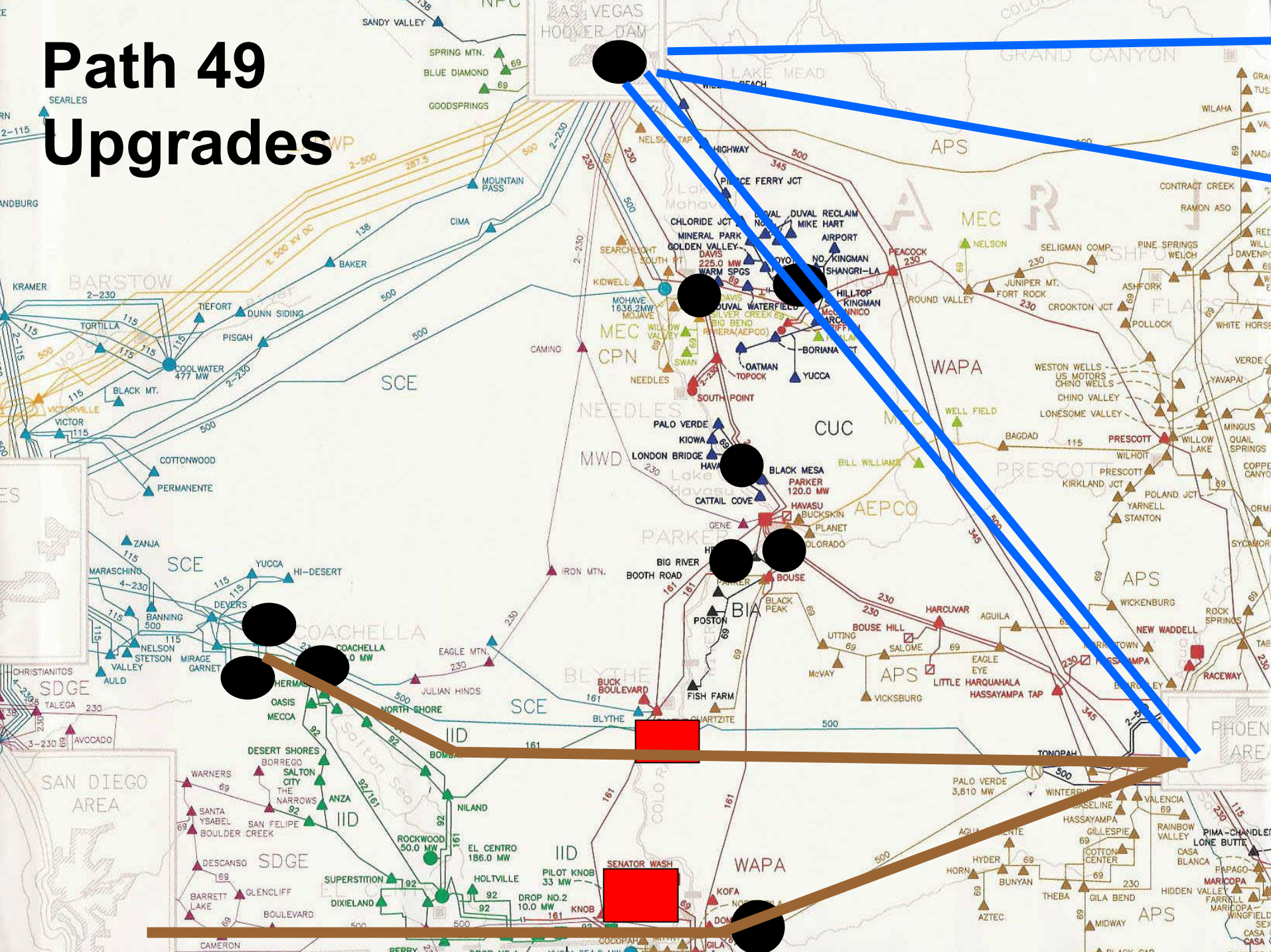
# Participants' Interest



# Existing EOR

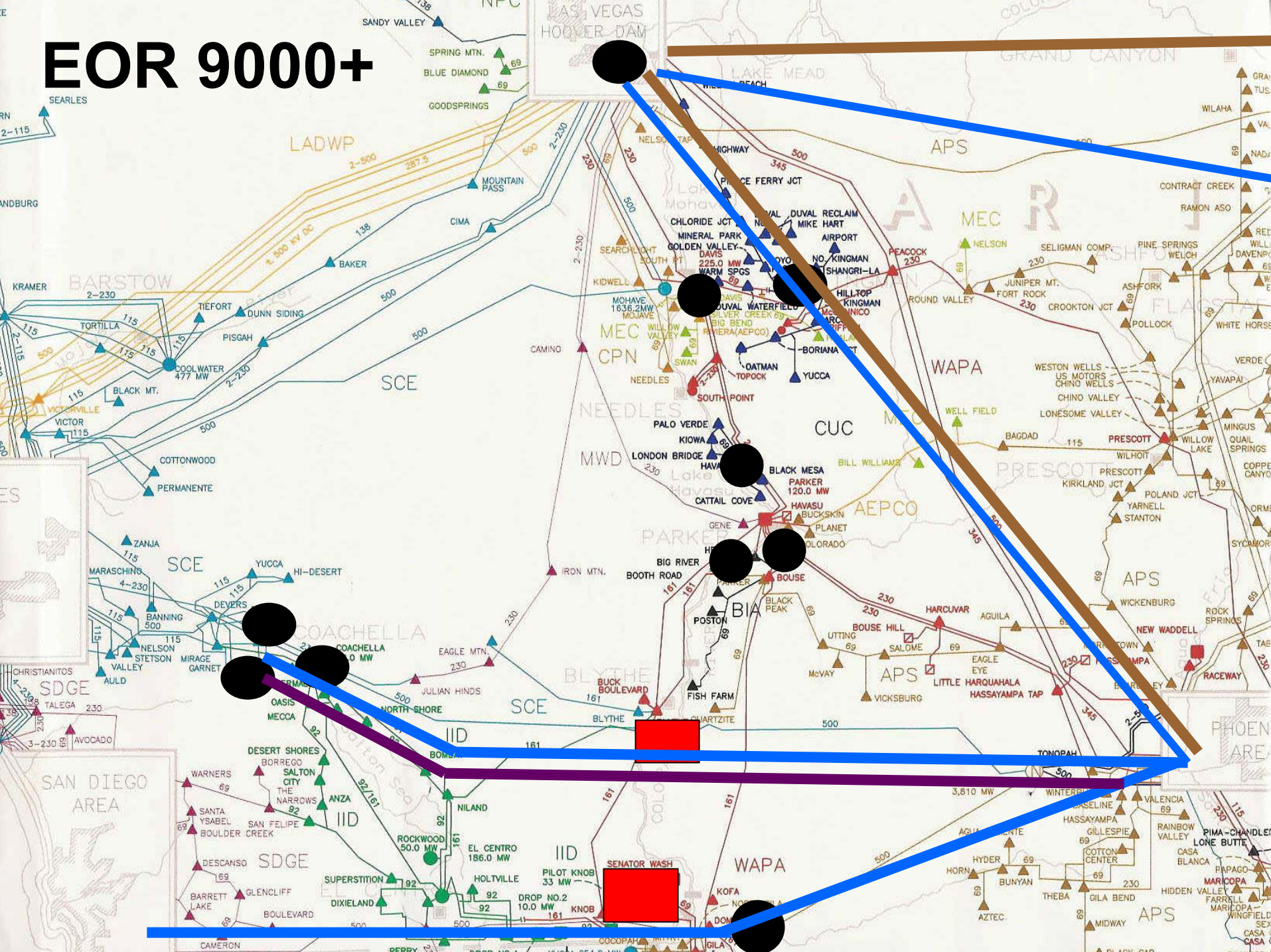


# Path 49 Upgrades

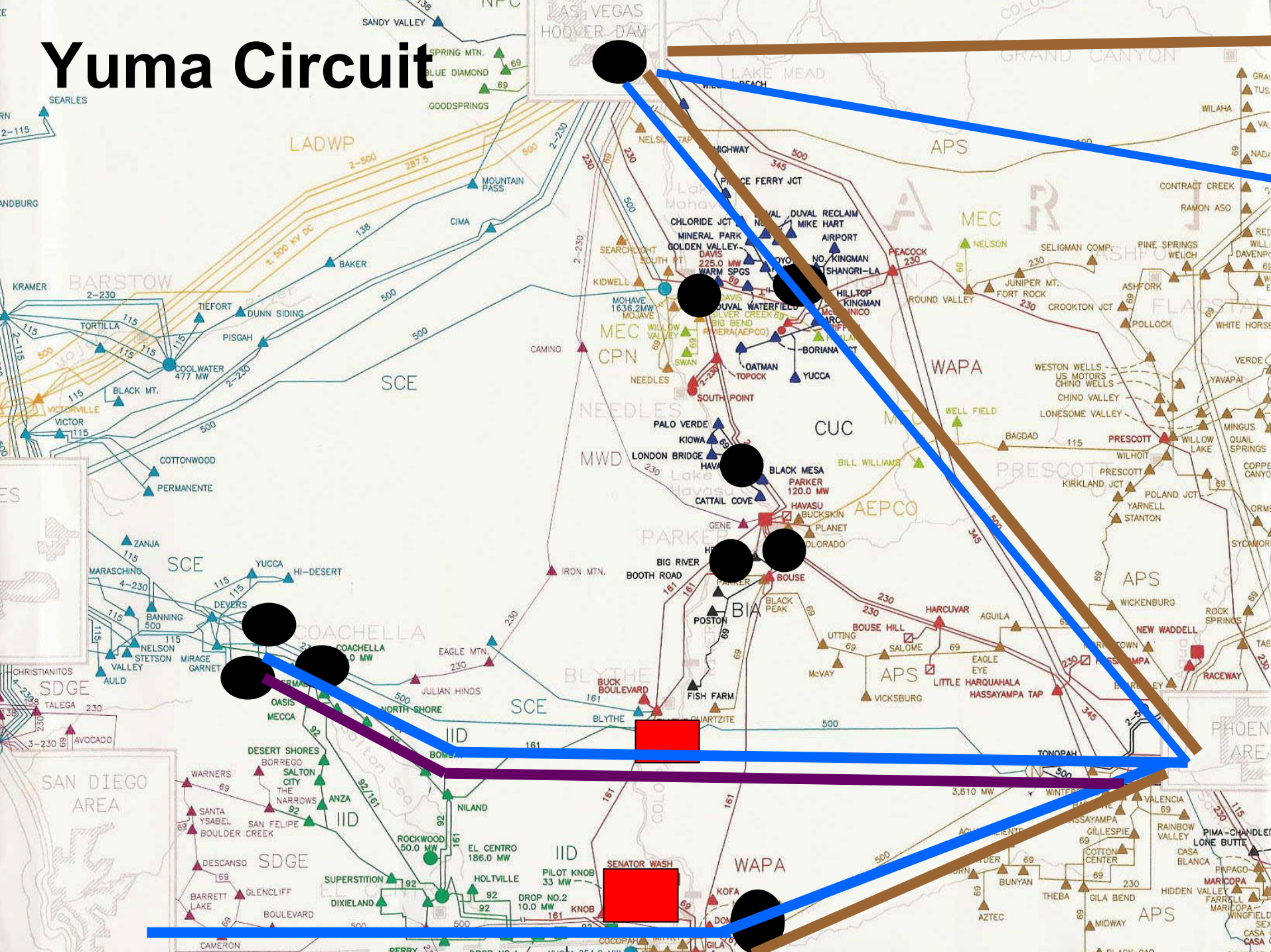




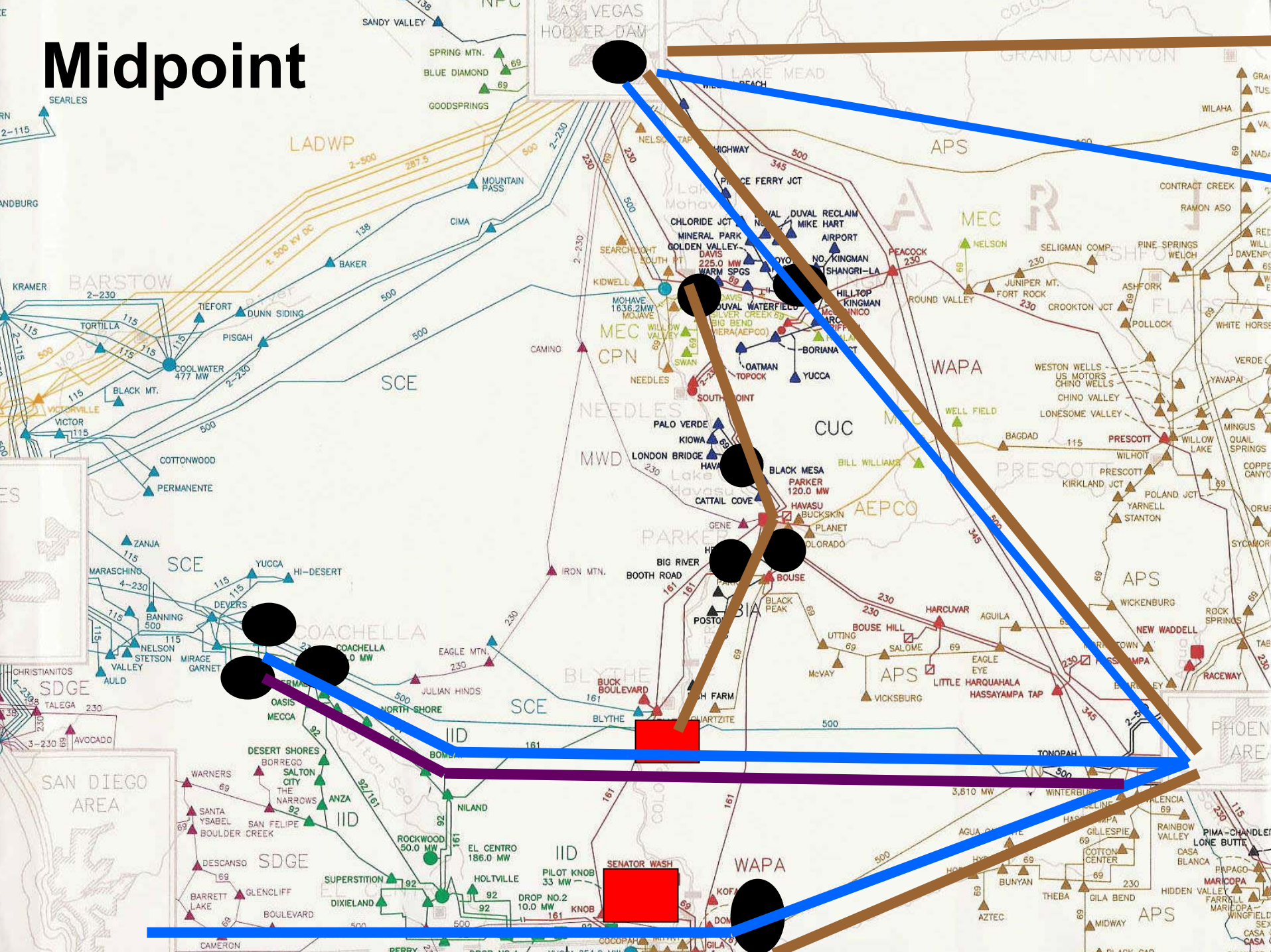
# EOR 9000+



# Yuma Circuit

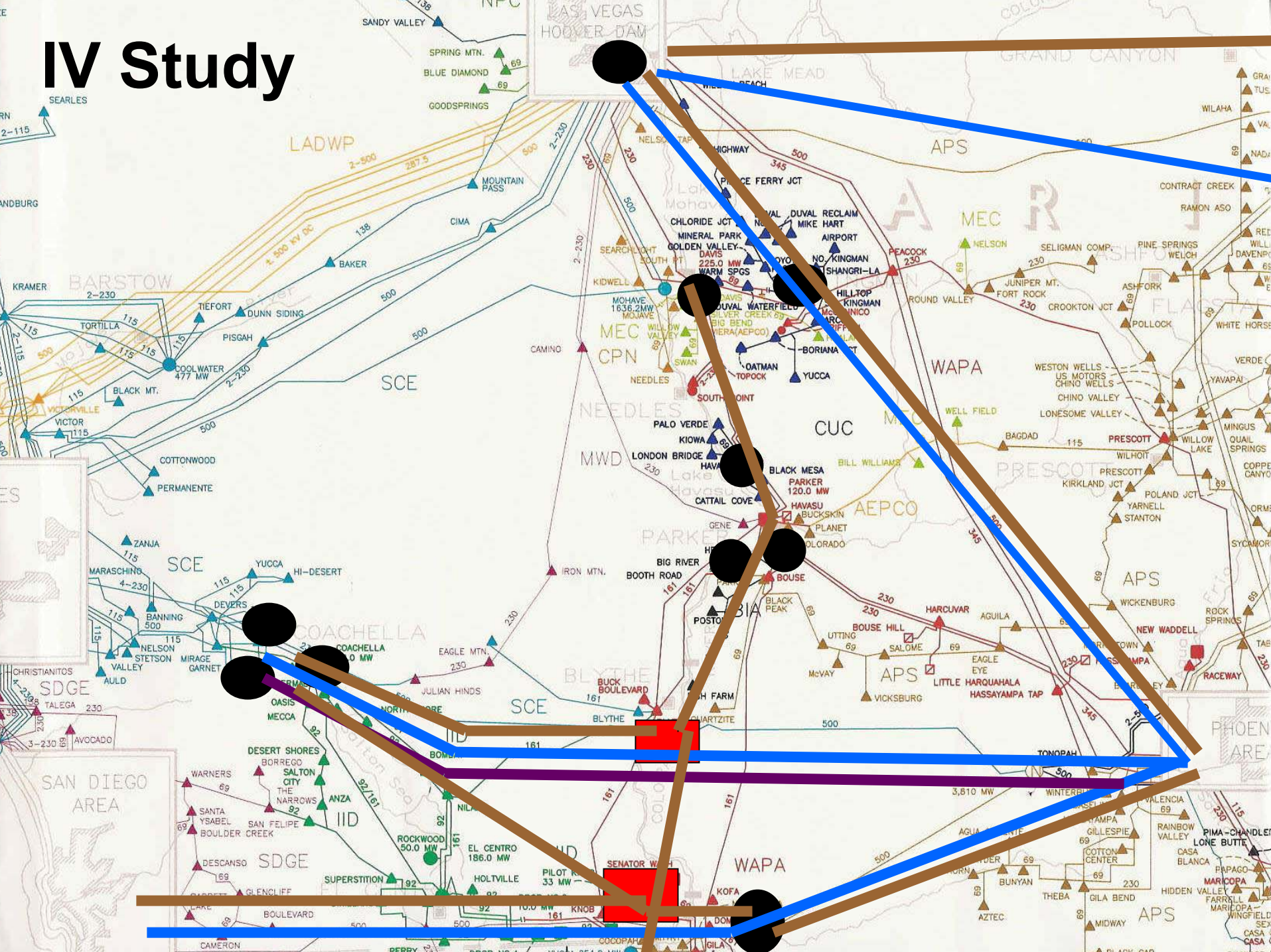


# Midpoint

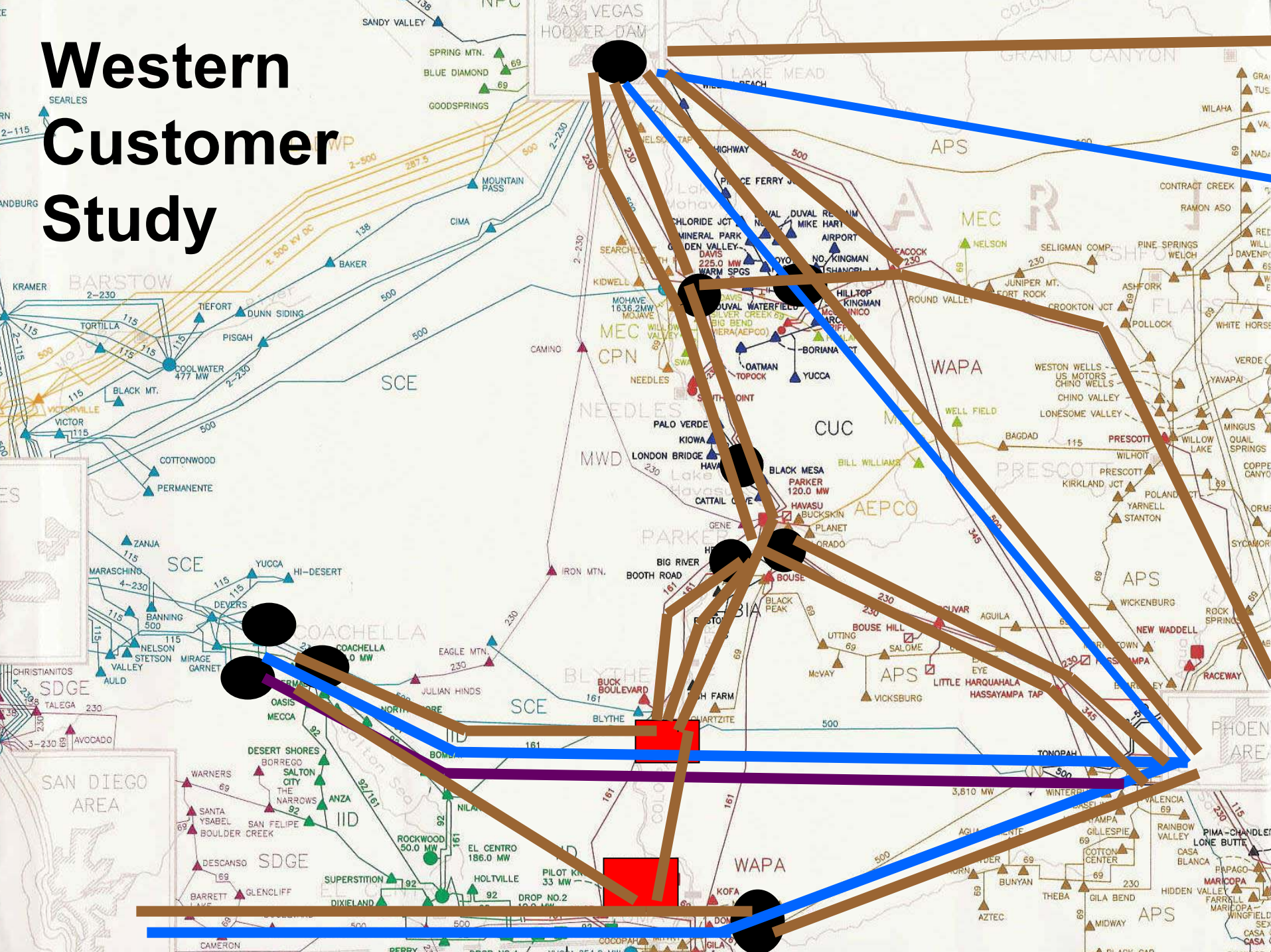




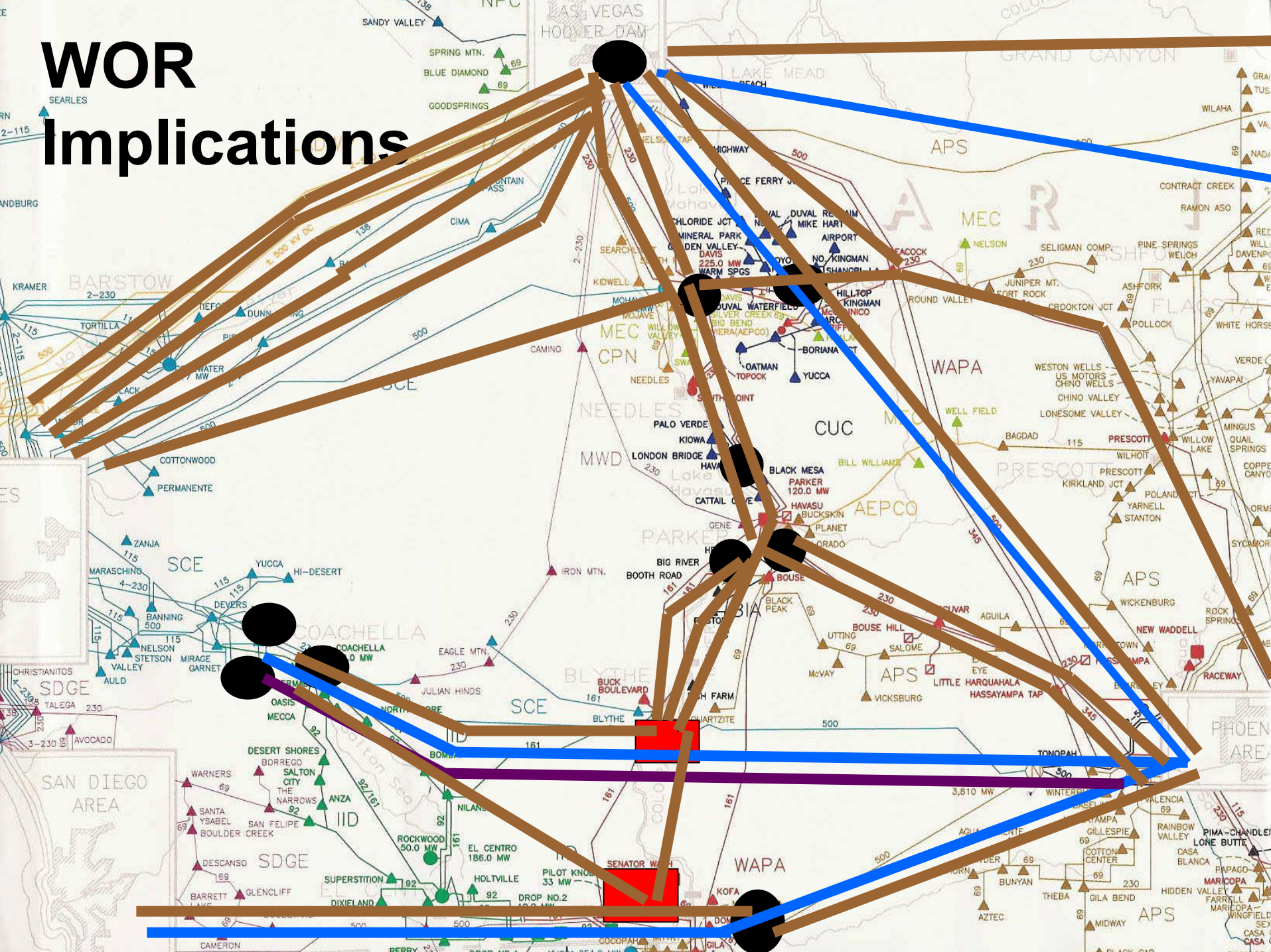
# IV Study



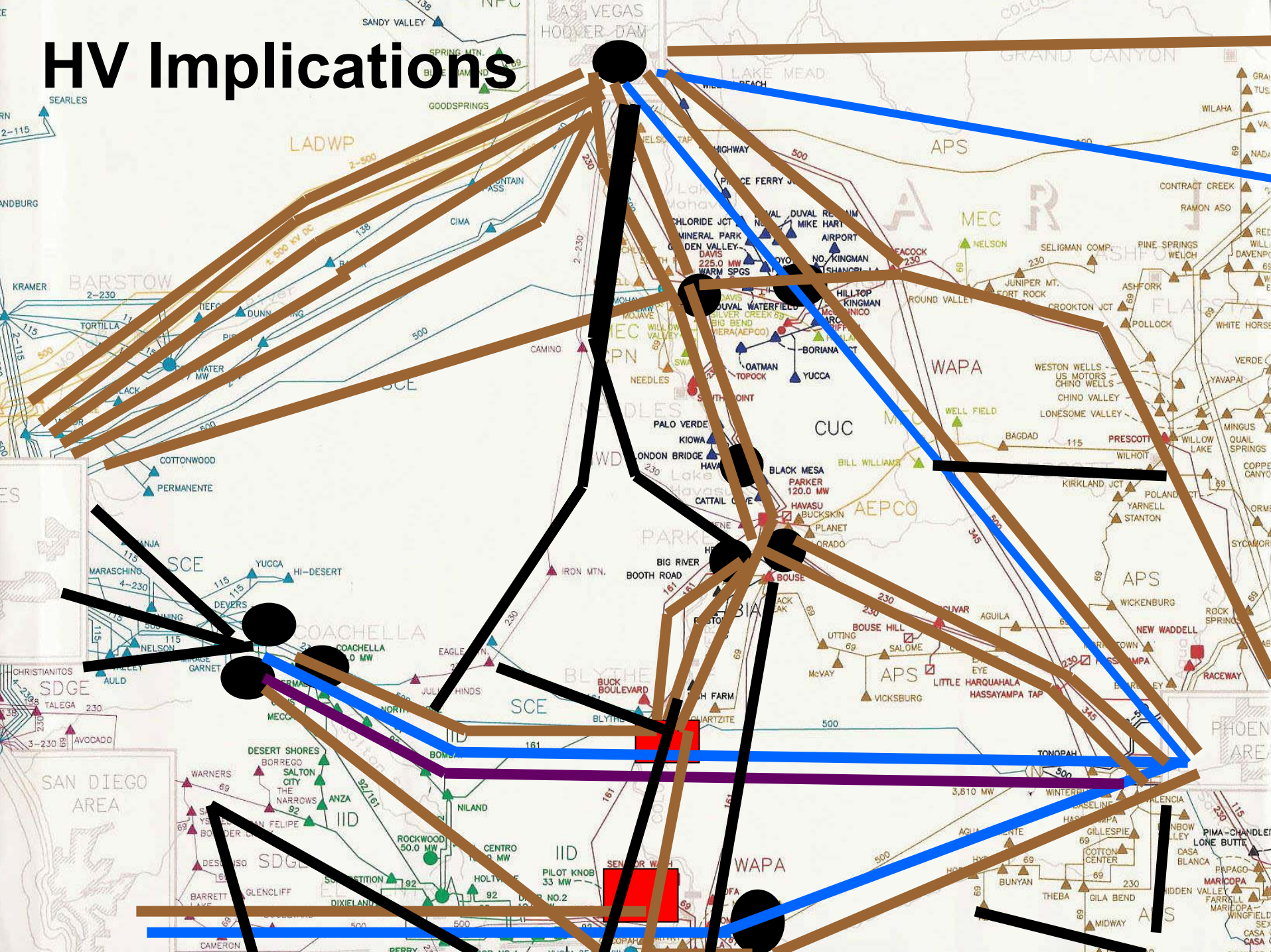
# Western Customer Study

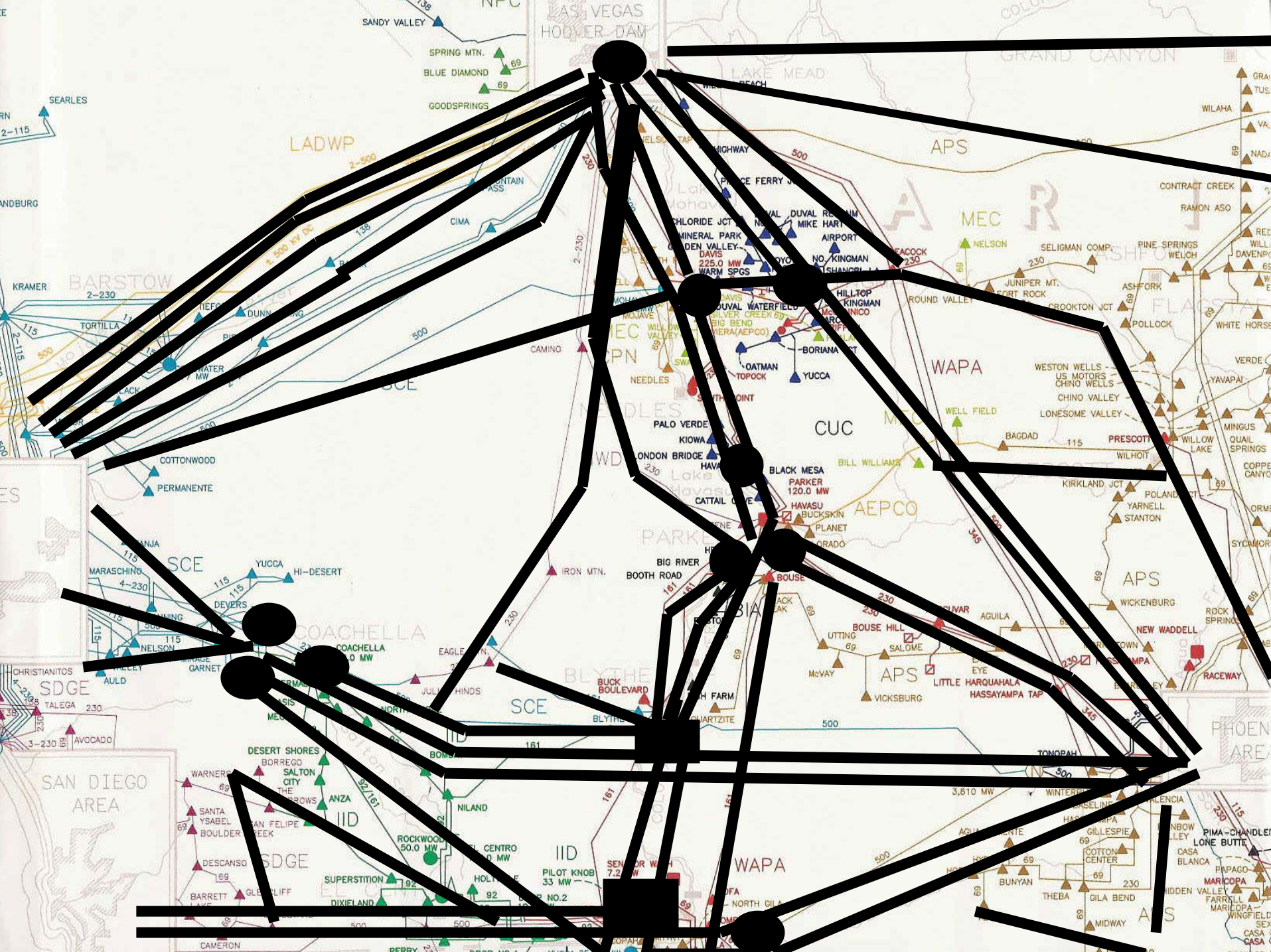


# WOR Implications



# HV Implications









**How About A Nice  
Game Of Chess?**



**QUESTIONS?**