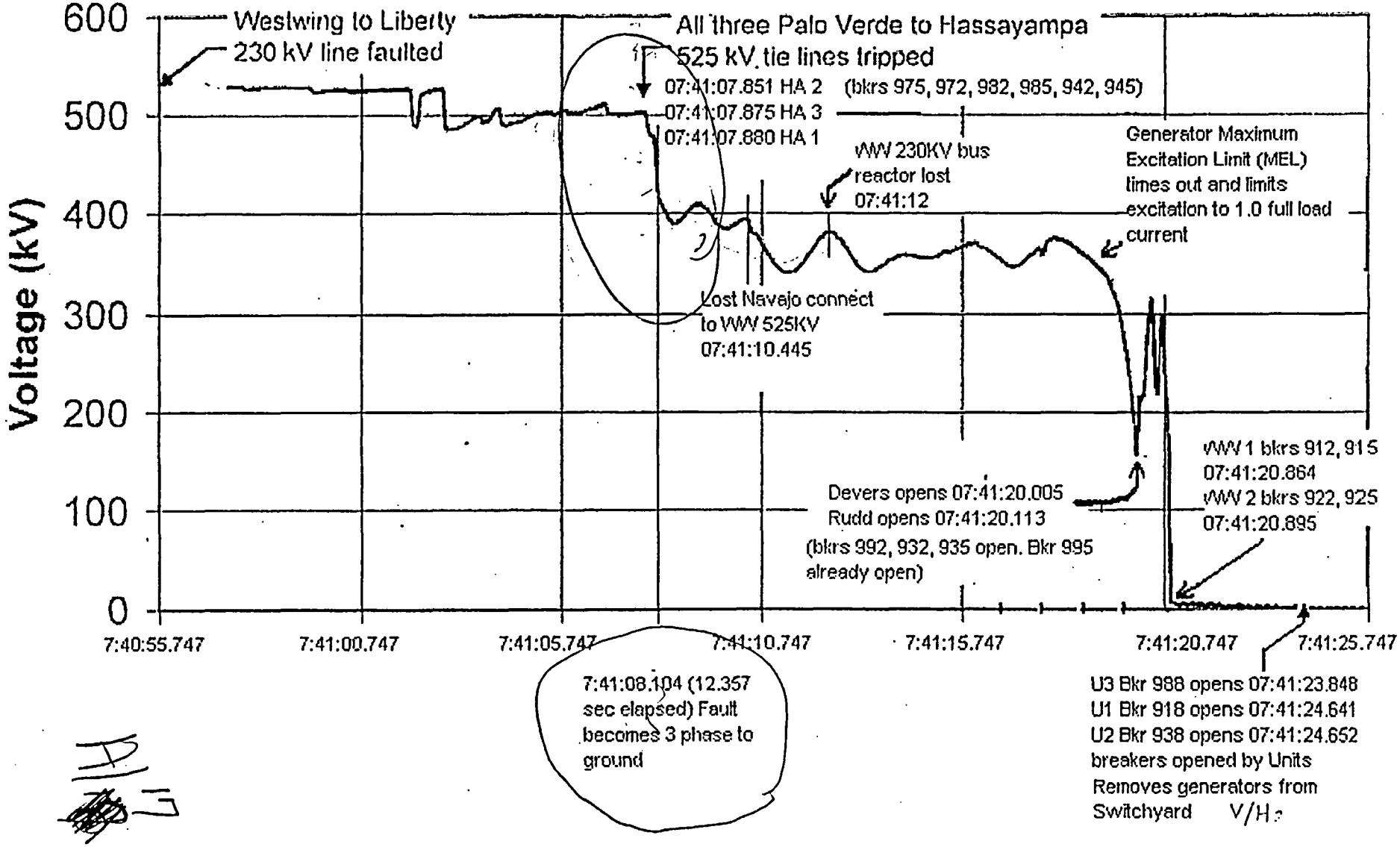
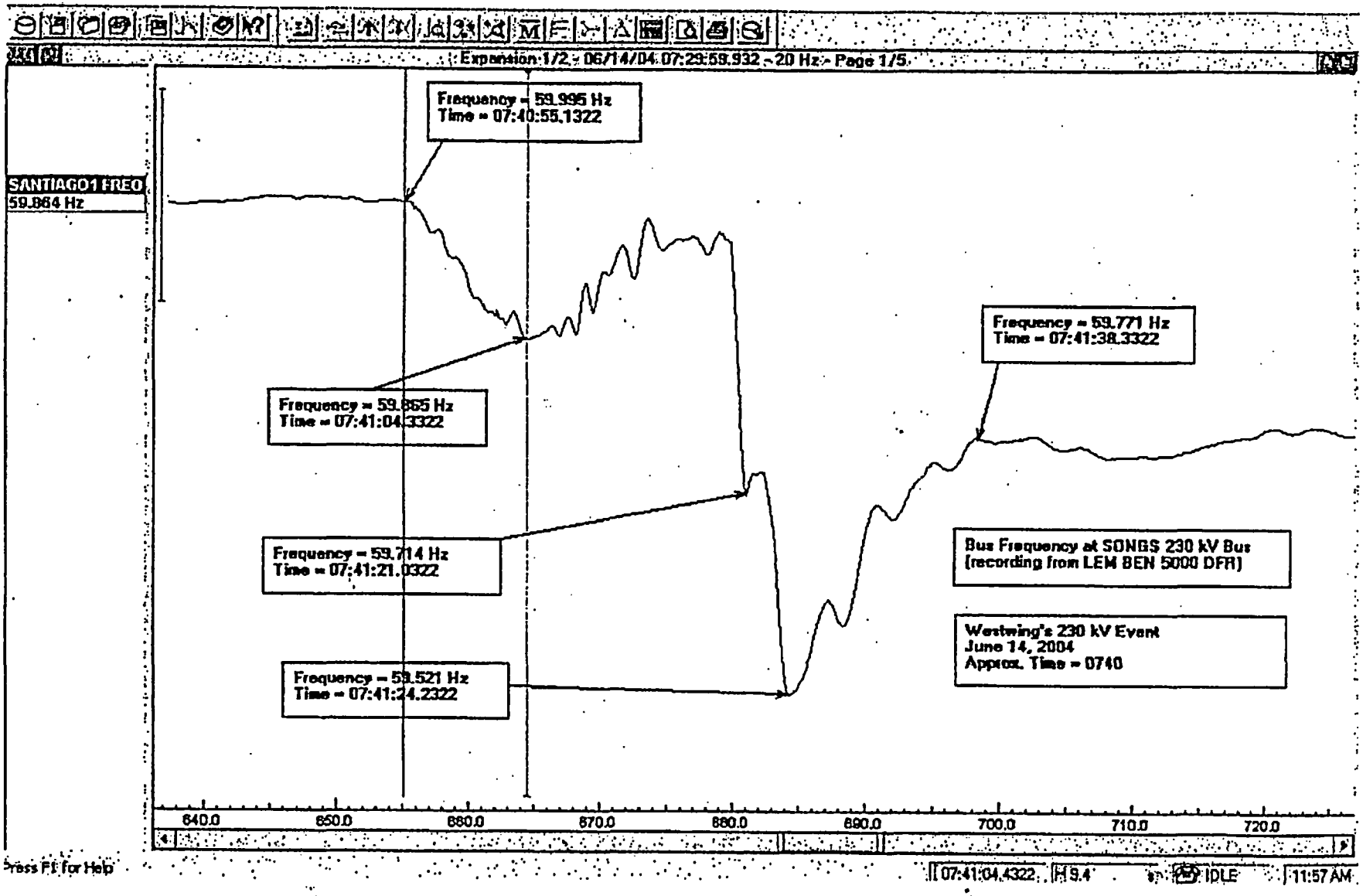
"DRAFT"

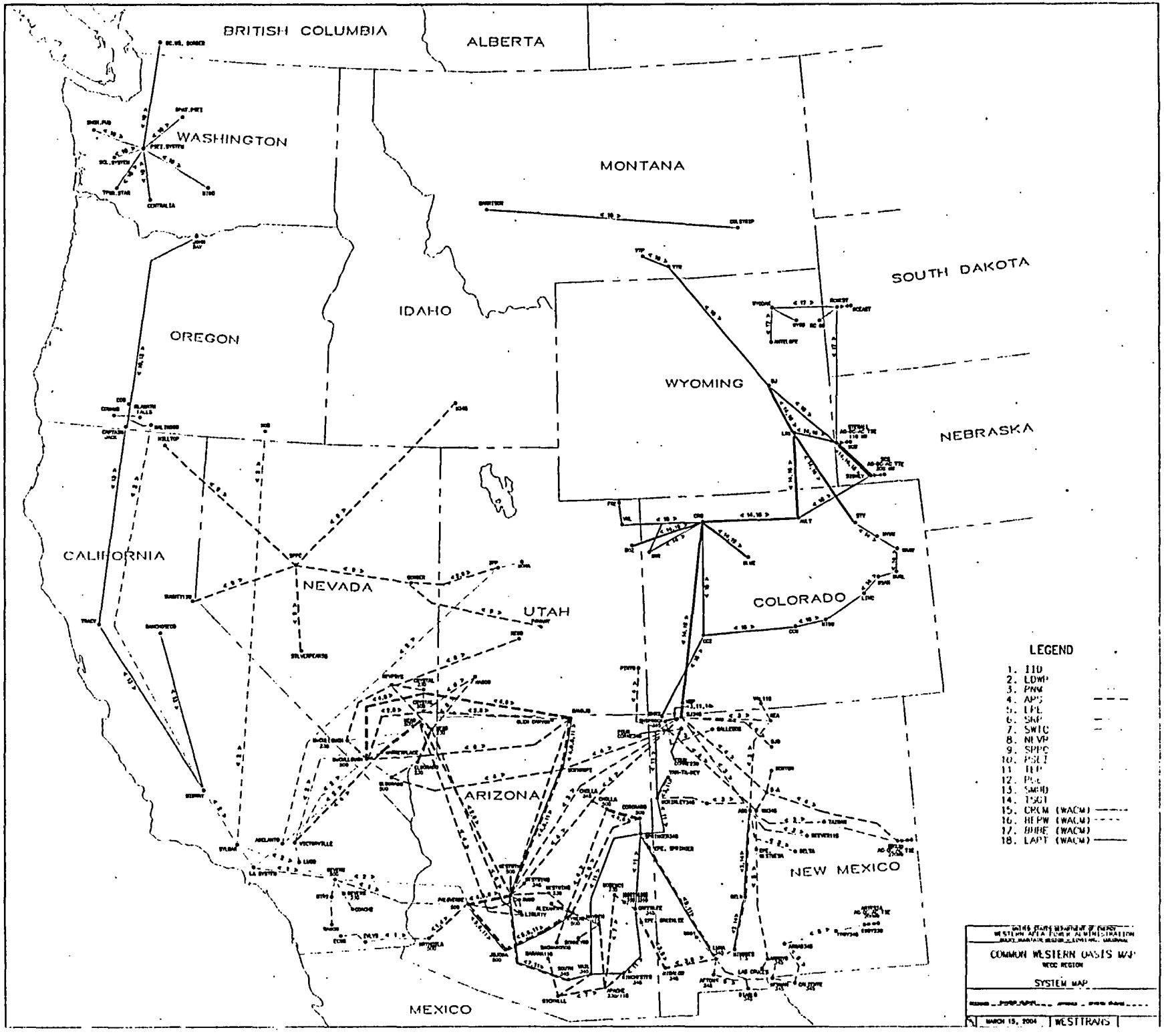
June 14, 2004 Event
Palo Verde Switchyard Voltage

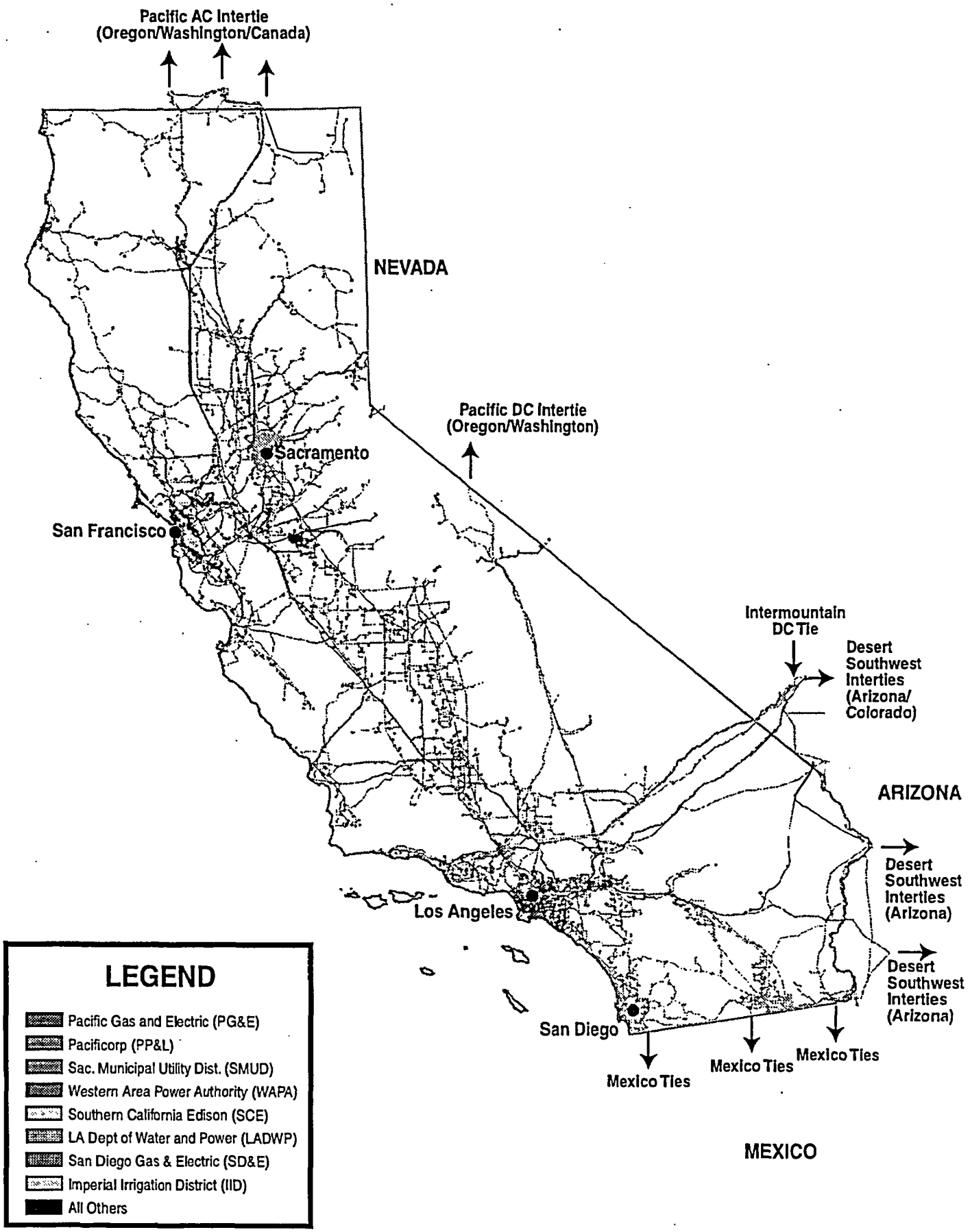


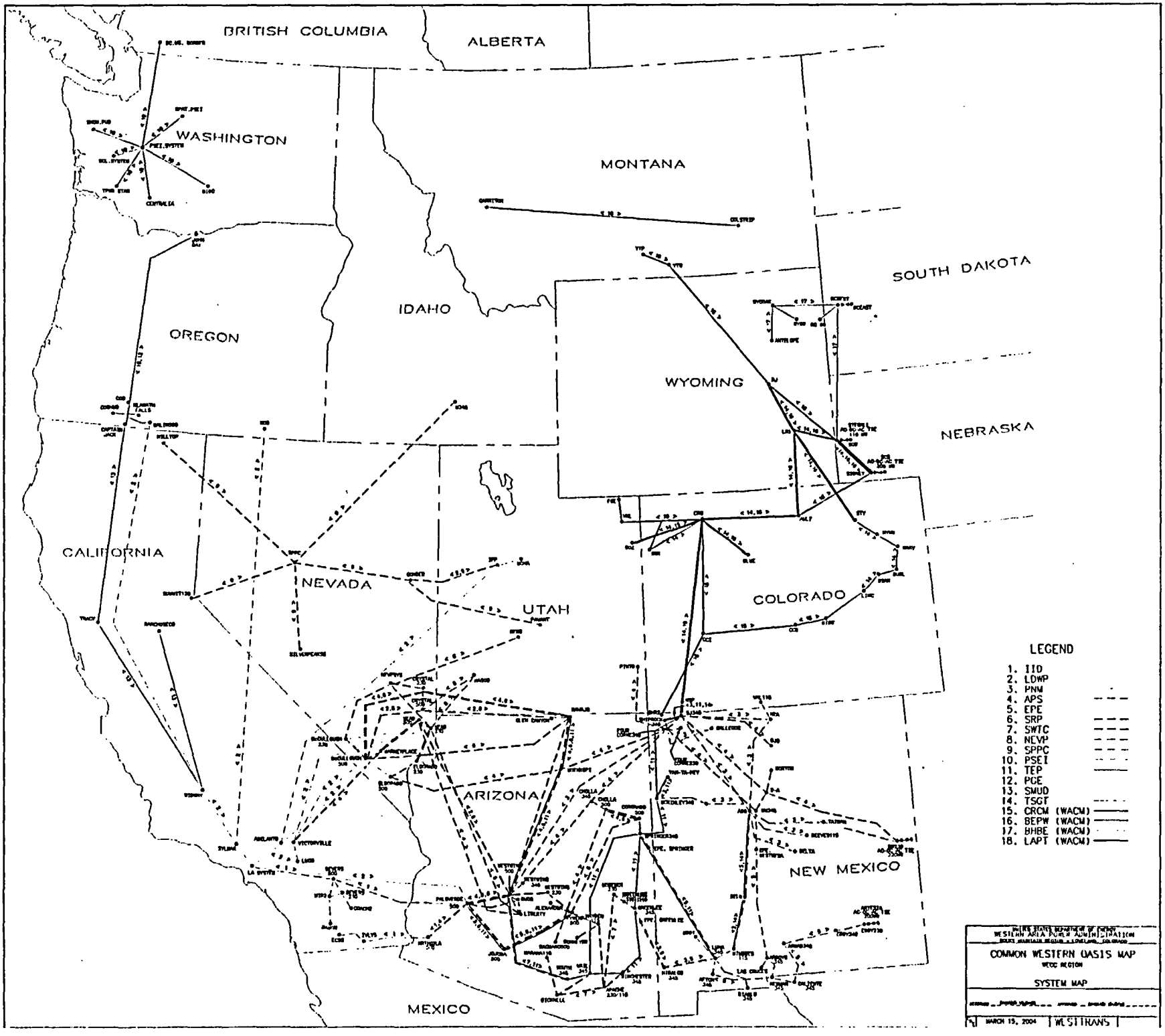
Licensee - Palo Verde

Pl 3


Expansion 1/2 - 06/14/04 07:29:59.932 - 20 Hz - Page 1/5
SANTIAGO1 FREQ
59.864 Hz
Frequency = 59.995 Hz
Time = 07:40:55.1322
Frequency = 59.865 Hz
Time = 07:41:04.3322
Frequency = 59.714 Hz
Time = 07:41:21.0322
Frequency = 59.521 Hz
Time = 07:41:24.2322
Frequency = 59.771 Hz
Time = 07:41:38.3322
Bus Frequency at SONGS 230 kV Bus
(recording from LEM BEN 5000 DFR)
Westwing's 230 kV Event
June 14, 2004
Approx. Time = 0740
640.0
650.0
660.0
670.0
680.0
690.0
700.0
710.0
720.0
Press F1 for Help
07:41:04.4322
H 9.4
IDLE
11:57 AM


BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
IDAHO
OREGON
WYOMING
NEBRASKA
CALIFORNIA
NEVADA
UTAH
COLORADO
ARIZONA
NEW MEXICO
MEXICO
LEGEND
1. IID
2. LDWP
3. PNM
4. APS
5. EPE
6. SNP
7. SWTC
8. NEVP
9. SPPC
10. PSCI
11. TEP
12. PSE
13. SMUD
14. TSGT
15. CPCM (WACM)
16. HEPW (WACM)
17. BBRE (WACM)
18. LAPT (WACM)
COMMON WESTERN OASIS MAP
WECC REGION
SYSTEM MAP
MARCH 15, 2004
WESTTRANS


Pacific AC Intertie
(Oregon/Washington/Canada)
NEVADA
Pacific DC Intertie
(Oregon/Washington)
Sacramento
San Francisco
Intermountain
DC Tie
Desert
Southwest
Interties
(Arizona/
Colorado)
ARIZONA
Desert
Southwest
Interties
(Arizona)
Los Angeles
Desert
Southwest
Interties
(Arizona)
San Diego
Mexico Ties
Mexico Ties
Mexico Ties
MEXICO
LEGEND
Pacific Gas and Electric (PG&E)
Pacificorp (PP&L)
Sac. Municipal Utility Dist. (SMUD)
Western Area Power Authority (WAPA)
Southern California Edison (SCE)
LA Dept of Water and Power (LADWP)
San Diego Gas & Electric (SD&E)
Imperial Irrigation District (IID)
All Others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7. SWTC
8. NEVP
9. SPPC
10. PSEI
11. TEP
12. PGE
13. SMUD
14. TSGT
15. CRCM (WACM)
16. BEPW (WACM)
17. BHBE (WACM)
18. LAPT (WACM)
COMMON WESTERN OASIS MAP
WECC REGION
SYSTEM MAP
MARCH 19, 2004
WESTHANS