

West of Devers Mitigation Alternatives

Status Report

STEP Informational Item

February 09, 2005



West of Devers (WOD) Approved Mitigation

- Devers-San Bernardino Series Reactor
 - Increase WOD limit from 1700 to 2100+ MW
 - Fixed series reactor to balance WOD flows
 - Benefit varies with operational conditions
 - Other mitigation alternatives appear favorable
 - DPV2 construction impact on benefits



Series Line Reactor Benefit

<u>Mountainview (MW)</u>	<u>WOD Limit (MW)</u>	
	<u>No Reactor</u>	<u>12.75 Ohm Reactor</u>
1,000	2,050	2,120
500	1,885	2,155
0	1,700	2,200



Mitigation Alternatives

- RAS (trip generation)
- De-looping
- Ramping Mountainview



Benefit Comparison

<u>Conditions</u>	<u>Actions</u>	<u>WOD Limit (MW)</u>	
		<u>SCE Plan</u>	<u>Reactor</u>
2 MV On 100%	1	2,350	2,120
1 MV Off Line 1 MV On 55-100%	1, 2, 3	2,200	2,155
2 MV On 55-100%	1, 3	2,300	2,120
2 MV Off Line	1, 2	2,300	2,200

- 1 --- RAS**
- 2 --- De-Loop**
- 3 --- Ramp Up MV**



DPV2 Construction Impact

- WOD Rebuild (2B-1033 ACSR)
- 2006-2009
- Major derates likely during construction
 - 2-3 circuits o/s over long periods
 - Balance performance, cost & time in plan
- RAS & MV ramp-up should help