

Summary of ISO Capital Expenditures - Non-Incentive Projects
 (\$000)

| | | | | | Project Total (ISO & non-ISO) | | | | ISO Portion | | | |
|---|--|---------|------------------|--------|-------------------------------|--------|--------|---------|-------------|--------|--------|---------|
| PIN | Project Title | Order # | High/Low Voltage | OD | Prior | 2013 | 2014 | Total | Prior | 2013 | 2014 | Total |
| Non-Incentive Transmission Projects includes Direct Installation and Removal Expenditures | | | | | | | | | | | | |
| Other Transmission | | | | | | | | | | | | |
| 06489 | El Segundo Gen. Station 220 kV Switchyard: Install all relays required for the RAS | | High | May-13 | 4,738 | 1,900 | - | 6,638 | 4,738 | 1,900 | - | 6,638 |
| 06694 | Devers-Coachella 220kV T/L: Relocate the line termination from Pos. 2N to 1S at Devers | | High | Jul-13 | 1 | 200 | - | 201 | 1 | 200 | - | 201 |
| 06694 | Devers-Mirage 220kV T/L: Relocate the line termination from Pos. 3S to 2N at Devers | | High | Jul-13 | 0 | 200 | - | 200 | 0 | 200 | - | 200 |
| 06694 | Devers: Upgrade the Devers RTU to incl monitoring & control of the Devers-Sentinel 220kV T/L | | High | Jul-13 | 7,240 | 200 | - | 7,440 | 7,240 | 200 | - | 7,440 |
| 06694 | El Casco Sub: Install one SEL-2407 satellite synchronized clock and two N60 relays | | High | Jul-13 | 73 | 200 | - | 273 | 73 | 200 | - | 273 |
| 06694 | Etwianda Sub: Install one SEL-2407 satellite synchronized clock and two N60 relays | | High | Jul-13 | 118 | 100 | - | 218 | 118 | 100 | - | 218 |
| 06694 | Mirage Sub: Upgrade line protection at the Devers 220kV T/L position. (LGIA - NU) | | High | Jul-13 | 1 | 300 | - | 301 | 1 | 300 | - | 301 |
| 06694 | San Bernardino Substation 220kV Switchyard: Install one SEL-2407 satellite synch | | High | Jul-13 | 125 | 300 | - | 425 | 125 | 300 | - | 425 |
| 06694 | Valley Sub: Install one SEL-2407 satellite synchronized clock and two N60 relays | | High | Jul-13 | 102 | 300 | - | 402 | 102 | 300 | - | 402 |
| 06694 | Vista Sub: Upgrade line protection at the Devers #1 220kV T/L position | | High | Jul-13 | 121 | 400 | - | 521 | 121 | 400 | - | 521 |
| 06694 | Total CPV Sentinel Project - Sentinel-Devers 220kV | | | | 7,780 | 2,200 | - | 9,980 | 7,780 | 2,200 | - | 9,980 |
| 06960 | Victor: Install SPS relays on the existing Kramer-Victor and Kramer-Roadway-Victor 115kV lines | | High | Apr-13 | 323 | 252 | - | 575 | 323 | 252 | - | 575 |
| 06960 | Roadway (NU): Install conduit & manhole inside Roadway Sub in support of Water Valley SPS | | High | Apr-13 | 120 | 461 | - | 581 | 120 | 461 | - | 581 |
| 06960 | Lugo(NU): Install new SPS relays and corresponding current transformers (CT), as required | | High | Apr-13 | 501 | 1,583 | - | 2,085 | 501 | 1,583 | - | 2,085 |
| 06960 | Kramer (NU): Network Upgrades for Water Valley | | High | Apr-13 | 51 | 12 | - | 63 | 51 | 12 | - | 63 |
| 06960 | Total Harper Lake (Abengoa Mohave Solar Project) | | | | 995 | 2,308 | - | 3,302 | 995 | 2,308 | - | 3,302 |
| 07081 | Neenach Substation (POS Reliability NU): Install new Neenach transfer bus for positions 1-6 | | High | Dec-13 | 379 | 750 | - | 1,129 | 379 | 750 | - | 1,129 |
| 07230 | Antelope(NU):Add line current diff relay | | High | Apr-13 | 60 | 200 | - | 260 | 60 | 200 | - | 260 |
| 07230 | Del Sur(NU): Add line current diff relay | | High | Apr-13 | 110 | 200 | - | 310 | 110 | 200 | - | 310 |
| 07230 | Total Antelope Power Plant | | | | 169 | 400 | - | 569 | 169 | 400 | - | 569 |
| 07390 | Antelope-Plainview ---- Antelope(NU):Equip 66kV position for gen-tie | | High | Aug-14 | 11 | 400 | 400 | 811 | 11 | 400 | 400 | 811 |
| 07420 | Antelope Sub (NU): 2 ---- Antelope Sub (NU): 2 66kV CBs for gen-tie | | High | Jun-14 | 14 | 800 | 1,000 | 1,814 | 14 | 800 | 1,000 | 1,814 |
| Total Other Transmission | | | | | 14,086 | 8,758 | 1,400 | 24,243 | 14,086 | 8,758 | 1,400 | 24,243 |
| TSP Projects | | | | | | | | | | | | |
| 06221 | Ellis Sub: Phase II: Install No.3A transformer bank to C-section. | | High | Jul-13 | 7,785 | 952 | - | 8,737 | 1,635 | 200 | - | 1,835 |
| 06263 | Vestal: Equip 230kV A-Bank positions (no.1 and 2) with circuit breakers | | High | Dec-13 | 2,597 | 1,204 | - | 3,800 | 2,415 | 1,119 | - | 3,534 |
| Total TSP Projects | | | | | 10,381 | 2,156 | - | 12,537 | 4,050 | 1,319 | - | 5,369 |
| Transmission Project Reliability | | | | | | | | | | | | |
| 04928 | TRTP Seg 1 Vegetation Remediation | | High | Dec-13 | 1,926 | 164 | - | 2,090 | 1,926 | 164 | - | 2,090 |
| 05453 | TRTP Seg 2 Vegetation Remediation | | High | Dec-13 | 584 | 771 | - | 1,355 | 584 | 771 | - | 1,355 |
| 06434 | TRTP Seg 3A Vegetation Remediation | | High | Dec-13 | 543 | 2,488 | - | 3,031 | 543 | 2,488 | - | 3,031 |
| Total TRTP Seg 1-3A | | | | | 3,053 | 3,423 | - | 6,476 | 3,053 | 3,423 | - | 6,476 |
| 07511 | TRTP Seg 1 Antelope-Pardee 500kV T/L: Install Marker Balls and Lighting | | High | Dec-14 | 4 | 673 | 673 | 1,350 | 4 | 673 | 673 | 1,350 |
| 07511 | TRTP Seg 2 Antelope-Vincent #1 500kV T/L: Install Marker Balls | | High | Dec-14 | 105 | 373 | 373 | 850 | 105 | 373 | 373 | 850 |
| TRTP 1&2 FAA Costs | | | | | 109 | 1,046 | 1,046 | 2,200 | 109 | 1,046 | 1,046 | 2,200 |
| 04956 | Big Creek #3: Install necessary protective relays on the new BC3-Rector No. 2 220kV T/L | | High | Mar-14 | 153 | 1,760 | 1,636 | 3,549 | 153 | 1,760 | 1,636 | 3,549 |
| 04956 | Big Creek #3-Springville 220 kV Line: Loop 23.4 miles | | High | Mar-14 | 15,534 | 63,194 | 27,682 | 106,410 | 15,534 | 63,194 | 27,682 | 106,410 |
| 04956 | Big Creek #3-Springville 220kV: Construct 18.5 miles of new double-circuit T/L | | High | Mar-14 | 6,798 | - | - | 6,798 | 6,798 | - | - | 6,798 |
| 04956 | Rector: Equip Two Line Positions that will be made available to Breaker-and-Half Scheme | | High | Mar-14 | 3,470 | 6,224 | 8,186 | 17,880 | 3,470 | 6,224 | 8,186 | 17,880 |
| 04956 | INSTALL NECESSARY PROTECTIVE RELAYS ON THE NEW 'RECTOR-SPRINGVILLE 220-KV T/L | | High | Mar-14 | 494 | 1,760 | 1,636 | 3,890 | 494 | 1,760 | 1,636 | 3,890 |
| 04956 | Vestal Sub: Install necessary protective relays on the Rector-Vestal No. 1 & 2 lines | | High | Mar-14 | 280 | 1,762 | 1,636 | 3,677 | 280 | 1,762 | 1,636 | 3,677 |
| 04956 | BC1-Rector & BC3-Rector 220-kV: Construct approx. 12 miles of new double-circuit | | High | Mar-14 | 19,308 | 10,788 | - | 30,096 | 19,308 | 10,788 | - | 30,096 |
| 04956 | San Joaquin Cross Valley Loop Land Acquisition | | High | Mar-14 | 5,560 | 899 | 923 | 7,381 | 5,560 | 899 | 923 | 7,381 |
| Total SJXVL | | | | | 51,596 | 86,387 | 41,697 | 179,680 | 51,596 | 86,387 | 41,697 | 179,680 |

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 (\$000)

| PIN | Project Title | Order # | High/Low Voltage | OD | Project Total (ISO & non-ISO) | | | | ISO Portion | | | |
|-------|---|---------|------------------|-------------------|-------------------------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|
| | | | | | Prior | 2013 | 2014 | Total | Prior | 2013 | 2014 | Total |
| 06477 | 3rd A-Bank & Rebuild of the 115 kV Switchrack at Victor Substation. | | Low | Jun-12 | - | 2,100 | - | 2,100 | - | 1,743 | - | 1,743 |
| 07464 | Victor Sub: Install relays to trip Victor-Kramer 115 kV lines & modify RAS | | Low | Jul-13 | - | 250 | - | 250 | - | 250 | - | 250 |
| 06154 | Install a 2nd set of BCT's on 220kV CB #1 on position 1 for the Magunden - Vesta | | High | Dec-13 | 372 | 826 | - | 1,198 | 372 | 826 | - | 1,198 |
| 06154 | RECTOR: INSTALL BUSHING CURRENT TRANSFORMERS. (PHASE 2) | | High | Dec-13 | 223 | 142 | - | 365 | 223 | 142 | - | 365 |
| 06154 | VESTAL: INSTALL BUSHING CURRENT TRANSFORMERS | | High | Dec-13 | 528 | 165 | - | 693 | 528 | 165 | - | 693 |
| | Total North of Magunden Redundant Bushing Current Transformer (BCT) Upgrades | | | | 1,123 | 1,133 | - | 2,256 | 1,123 | 1,133 | - | 2,256 |
| 07235 | South of SONGS Monitoring Addition | | High | May-13 | 19 | 50 | - | 69 | 19 | 50 | - | 69 |
| 06714 | Rio Hondo: Equip the 230kV A-Banks at positions 2, 3, 9 & 10 with double breaker | | High | Oct-13 | 13,265 | 725 | - | 13,990 | 5,306 | 290 | - | 5,596 |
| 06714 | Vincent: Replace/upgrade L90 relays on Rio Hondo #1 and #2 220kV lines | | High | Jun-13 | 26 | 301 | - | 327 | 26 | 301 | - | 327 |
| | Total Rio Hondo Sub: 230kV Double Breakers for A Banks | | | | 13,291 | 1,026 | - | 14,317 | 5,332 | 591 | - | 5,923 |
| 06468 | Victor Sub: Upgrade Protection | | High | Jun-14 | 426 | 236 | 300 | 962 | 426 | 236 | 300 | 962 |
| 06767 | Santiago 230kV Substation - Banks on Breakers & SONGS Line Isolation | | High | Feb-13 | 10,379 | 835 | - | 11,215 | 10,275 | 827 | - | 11,102 |
| 06414 | Mirage: Equip 230kV switchrack position No.5 as a breaker-and-a-half config. | | High | May-13 | 4,609 | 150 | - | 4,759 | 4,609 | 150 | - | 4,759 |
| 06414 | MIRAGE-JULIAN HINDS 220KV: MOVE FROM POSITION #2N TO POSITION #5. | | High | May-13 | 487 | 150 | - | 637 | 487 | 150 | - | 637 |
| 06414 | DEVERS-MIRAGE #1 220KV: MOVE FROM POSITION #3N TO POSITION #2N | | High | May-13 | 2,121 | 800 | - | 2,921 | 2,121 | 800 | - | 2,921 |
| 06414 | MIRAGE-COACHELLA-RAMON #1 220KV: MOVE FROM #3S TO POSITION #6N | | High | May-13 | 642 | 250 | - | 892 | 642 | 250 | - | 892 |
| 06414 | DEVERS-MIRAGE #2 220KV: TERMINATES IN POSITION #3N | | High | May-13 | 845 | 250 | - | 1,095 | 845 | 250 | - | 1,095 |
| 06414 | MIRAGE-COACHELLA #2 220KV: TERMINATE IN POSITION #4N | | High | May-13 | 227 | 150 | - | 377 | 227 | 150 | - | 377 |
| 06414 | Devers 220kV Sub: 220kV Position No. 3S: Change the line name from the Mirage | | High | May-13 | 72 | 150 | - | 222 | 72 | 150 | - | 222 |
| | Total Coachella Valley-Devers 220kV Loop-In Project | | | | 9,003 | 1,900 | - | 10,903 | 9,003 | 1,900 | - | 10,903 |
| 07410 | Ellis Sub: Extend the 220 kV buses at Ellis substation two positions | | High | Jun-13 | 740 | 4,667 | - | 5,407 | 740 | 4,667 | - | 5,407 |
| 07410 | Barre Sub: Equip (2) 220 kV positions | | High | May-13 | 581 | 2,769 | - | 3,349 | 581 | 2,769 | - | 3,349 |
| 07410 | Barre-Ellis220kV TLs: Create 4 Individual TLs | | High | Aug-13 | 41 | 2,041 | - | 2,082 | 41 | 2,041 | - | 2,082 |
| | Total Barre-Ellis 220kV line - SONGS Mitigation | | | | 1,362 | 9,477 | - | 10,839 | 1,362 | 9,477 | - | 10,839 |
| 07406 | Viejo 220 kV Capacitor Banks | | High | Apr-13 | 312 | 2,832 | - | 3,144 | 312 | 2,832 | - | 3,144 |
| 07407 | Johanna Sub: Install one 79.2 MVAR capacitor bank | | High | Apr-13 | 205 | 2,291 | - | 2,496 | 205 | 2,291 | - | 2,496 |
| 07407 | Santiago Sub: Install one 79.2 MVAR capacitor bank | | High | Apr-13 | 680 | 1,988 | - | 2,667 | 680 | 1,988 | - | 2,667 |
| | Total Johanna & Santiago Capacitor Banks - SONGS Mitigation | | | | 885 | 4,278 | - | 5,163 | 885 | 4,278 | - | 5,163 |
| 07252 | Antelope 220 Substation - Ten (10) 220 KV CB Upgrade | | High | Jun-13 | 1,489 | 2,760 | - | 4,249 | 1,489 | 2,760 | - | 4,249 |
| 06415 | Reconductor Coachella Valley-Mirage 220kV T/L | | High | Apr-14 | 3 | 261 | 969 | 1,234 | 3 | 261 | 969 | 1,234 |
| 06415 | Devers Sub: PHASE 2 - Replace six 220kV 2000A disconnects | | High | Apr-14 | 459 | 108 | 386 | 953 | 459 | 108 | 386 | 953 |
| 06415 | Devers-Mirage #1 Build 15-mile Double Circuit 230kV T/L | | High | Apr-14 | 1,289 | 9,825 | 27,077 | 38,191 | 1,289 | 9,825 | 27,077 | 38,191 |
| 06415 | Mirage Sub: PHASE 2 - Replace two (2) 2000A 220kV CB's | | High | Apr-14 | 167 | 2,810 | 6,033 | 9,011 | 167 | 2,810 | 6,033 | 9,011 |
| | Total Path 42 Upgrade | | | | 1,918 | 13,004 | 34,466 | 49,388 | 1,918 | 13,004 | 34,466 | 49,388 |
| 06685 | Windhub Sub: Install 2-280/336 MVA transformer banks | | Low | Jun-14 | 3,544 | 10,417 | 3,933 | 17,894 | 425 | 1,250 | 472 | 2,147 |
| 07237 | Tortilla Sub: Install two 115kV 14.4 MVAR switched shunt capacitors | | Low | Jun-13 | 576 | 2,578 | - | 3,154 | 576 | 2,578 | - | 3,154 |
| 06765 | Mira Loma Substation Fire Mitigation Plan | | High | Blanket Specifics | - | 1,200 | 1,600 | 2,800 | - | 1,200 | 1,600 | 2,800 |
| 07111 | La Cienega: Equip the 230kV A-Bank positions (no.'s 3 & 4) with circuit breakers | | High | | 2,432 | 820 | 595 | 3,847 | 2,310 | 779 | 566 | 3,655 |
| 07112 | Devers: Equip the 230 KV A-Bank positions (3 & 4) with circuit breakers | | High | | 330 | 111 | 2,667 | 3,108 | 297 | 100 | 2,400 | 2,797 |
| 07375 | Vincent 3AA Transformer Bank Fire Mitigation Project | | High | | - | 200 | 1,600 | 1,800 | - | 200 | 1,600 | 1,800 |
| 07121 | Padua: Bank on Circuit Breaker project | | High | Dec-14 | 16 | 703 | 2,727 | 3,447 | 15 | 668 | 2,591 | 3,274 |
| 07241 | Eldorado 500kV Substation | | High | Dec-14 | - | 325 | 7,649 | 7,973 | - | 308 | 7,266 | 7,574 |
| 07117 | Kramer: Equip 1A & 2A with circuit breakers | | High | Dec-14 | - | 559 | 5,153 | 5,712 | - | 531 | 4,895 | 5,426 |
| | Total Transmission Project Reliability | | | | 101,971 | 148,695 | 104,478 | 355,145 | 90,634 | 138,596 | 99,944 | 329,175 |

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 (\$000)

| | | | | | Project Total (ISO & non-ISO) | | | | ISO Portion | | | |
|--|---|---------|------------------|-------------------|-------------------------------|---------|---------|---------|-------------|---------|---------|---------|
| PIN | Project Title | Order # | High/Low Voltage | OD | Prior | 2013 | 2014 | Total | Prior | 2013 | 2014 | Total |
| Infrastructure Replacement | | | | | | | | | | | | |
| 03138 | Sylmar Converter Station & HVDC T/L: Capital Additions & Betterment | | High | Blanket Specifics | - | 206 | - | 206 | - | 206 | - | 206 |
| 04343 | Substation Relay Replacement Program (SRRP) | | High | Blanket Specifics | - | 4,505 | 4,200 | 8,705 | - | 4,505 | 4,200 | 8,705 |
| 04211 | Replace Bulk Power Circuit Breakers | | High | Blanket Specifics | - | 3,260 | 3,333 | 6,593 | - | 3,260 | 3,333 | 6,593 |
| 04331 | Transformer Bank Replacement Program | | High | Blanket Specifics | - | 23,247 | 17,827 | 41,074 | - | 23,247 | 17,827 | 41,074 |
| 05210 | Replace Deteriorated Single Phase & Three Phase "A" Bank Transformers | | High | Blanket Specifics | - | 4,028 | 4,119 | 8,147 | - | 4,028 | 4,119 | 8,147 |
| 04756 | Substation Equipment, Additions & Betterment | | High | Blanket Specifics | - | 9,346 | 9,556 | 18,902 | - | 9,346 | 9,556 | 18,902 |
| 06197 | On-Line Dissolved Gas Analysis of Bulk Power Transformer Banks | | High | Blanket Specifics | - | 2,219 | 2,347 | 4,567 | - | 2,219 | 2,347 | 4,567 |
| Total Infrastructure Replacement | | | | | - | 46,813 | 41,382 | 88,195 | - | 46,813 | 41,382 | 88,195 |
| Grid Applications | | | | | | | | | | | | |
| 06428 | Centralized Remedial Action Scheme (C-RAS) Project | | High | Dec-14 | 4,365 | 3,521 | - | 7,886 | 4,365 | 3,521 | - | 7,886 |
| PWRD Blankets | | | | | | | | | | | | |
| 03363 | Substation Breakdown Maintenance Replacements - Northwest | | High | Blanket Specifics | - | 7,647 | 7,818 | 15,465 | - | 1,011 | 1,033 | 2,044 |
| 03363 | Substation Planned Maintenance Replacements - Northwest | | High | Blanket Specifics | - | 10,776 | 11,018 | 21,794 | - | 2,006 | 2,051 | 4,057 |
| 03363 | Facilities - Operational | | High | Blanket Specifics | - | 4,600 | 5,600 | 10,200 | - | 483 | 588 | 1,072 |
| 03363 | Substation Equipment Additions & Replacements | | | | - | 23,023 | 24,436 | 47,459 | - | 3,500 | 3,673 | 7,173 |
| 03364 | Transmission Breakdown Maintenance Replacements | | High | Blanket Specifics | - | 4,427 | 4,526 | 8,953 | - | 1,538 | 1,572 | 3,110 |
| 03364 | Transmission Deteriorated Pole Replacements | | High | Blanket Specifics | - | 30,182 | 30,859 | 61,041 | - | 2,412 | 2,466 | 4,878 |
| 03364 | Transmission Equipment Additions & Replacements | | | | - | 34,609 | 35,385 | 69,994 | - | 3,950 | 4,038 | 7,988 |
| 03367 | Substation Claim - Northwest | | High | Blanket Specifics | - | 472 | 483 | 955 | - | 50 | 51 | 101 |
| 03367 | Transmission Claim | | High | Blanket Specifics | - | 2,255 | 2,305 | 4,560 | - | 395 | 404 | 799 |
| 03367 | Transmission Storm - Eastern | | High | Blanket Specifics | - | 4,462 | 4,562 | 9,023 | - | 1,542 | 1,576 | 3,118 |
| 03367 | Transmission Storm & Claims | | | | - | 7,188 | 7,350 | 14,538 | - | 1,987 | 2,031 | 4,018 |
| Total PWRD Blankets | | | | | - | 64,820 | 67,171 | 131,991 | - | 9,436 | 9,742 | 19,179 |
| Total Non-Incentive Transmission Projects | | | | | 130,803 | 274,762 | 214,432 | 619,997 | 113,134 | 208,444 | 152,468 | 474,046 |
| Total Forecast Expenditures (Closing by December 2014) | | | | | 130,803 | 274,762 | 214,432 | 619,997 | 113,134 | 208,444 | 152,468 | 474,046 |
| Total Forecast Blanket Expenditures (Closing by December 2014) | | | | | - | 112,832 | 110,153 | 222,986 | - | 57,449 | 52,724 | 110,174 |