

January 31, 2005

The Honorable Magalie R. Salas
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

**Re: California Independent System Operator Corporation
Compliance Filing
Docket No. ER05-149-_____**

Dear Secretary Salas:

The California Independent System Operator Corporation ("ISO")¹ respectfully submits six copies of this filing in compliance with the Commission's December 30, 2004 order in Docket Nos. ER05-149-000 through ER05-155-000, 109 FERC ¶ 61,391 ("December 30 Order"), with regard to the compliance directives in Docket No. ER05-149-000.

In Docket No. ER05-149-000, the Commission accepted Amendment No. 2 to the Interconnected Control Area Operating Agreement ("ICAOA") between the ISO and the Sacramento Municipal Utility District, effective January 1, 2005.² December 30 Order at ordering paragraph (B). The Commission noted that the ISO, in its answer in the proceeding, committed to revise the ICAOA to provide that, with regard to the Tracy-Westley Interconnection, losses will be dynamically adjusted in the meter based on the actual flows across the transmission line. *Id.* at P 50. The Commission also noted that the ISO committed to revise the ICAOA to correct a misstatement in the location of a metering point in proposed Service Schedule 4 of the ICAOA for the Herdlyn 69 kV Interconnection – the

¹ Capitalized terms not otherwise defined herein are used in the sense given in the Master Definitions Supplement, Appendix A to the ISO Tariff.

² The ICAOA is designated as ISO Original FERC Rate Schedule No. 42.

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reference in the service schedule should be to the Tracy Substation, not the Herdlyn Substation. *Id.* at P 52. The Commission directed the ISO to make those revisions. *Id.* at P 53. The ISO has modified Service Schedules 1 and 4 to comply with those directives.

The changes to the ICAOA described above are shown in the revised sheets provided in Attachment A to the present filing, and are shown in black-line format in Attachment B. Additionally, the ISO submits, in Attachment C, a form notice of filing suitable for publication in the Federal Register, along with a computer diskette containing the notice of filing.

Two additional copies of this filing are enclosed to be date-stamped and returned to our messenger. If there are questions concerning this filing, please contact the undersigned.

Respectfully submitted,

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ATTACHMENT A

basis. Western/SMUD shall allow for ISO polling of the data recorders. The MW and MVar analog value can be read using the available second communication port of the RTU.

- **TRACY 230 INTERCONNECTION**

The Interconnection point with the Western system is metered on the 525/230/34.5 kV transformers KT1A and KT2A at Tracy Substation. The meter is currently a Quad-4 that has the capability of metering Watthours and Varhours. The meters are located in the 230 kV yard. This is a bi-directional meter with the accuracy rating of 0.3 %. The instrument transformers (C.T.s and P.T.s) for revenue meters are located in the 230 kV switchyard at the Interconnection point of the 230 kV bus. All P.T.s and C.T.s are rated at 0.3 % accuracy class with CT ratio of 400:1 and PT ratio of 1200:1. The meter's MW and MVar milliamp analog outputs (bi-directional) and the MWh and MVarh pulse outputs are provided to the ISO's EMS RTU. The MWh and MVarh pulse (bi-directional) outputs are also stored in internal data recorders for MV90 use. The meters are polled by Western's / SMUD's MV90 system via dial-up telephone lines on a daily basis. Western/SMUD shall allow for ISO polling of the data recorders. The MW and MVar analog value can be read using the available second communication port of the RTU.

- **TRACY-WESTLEY INTERCONNECTION**

The Interconnection point with the Western system is metered on 230 kV at Tracy Substation. The meter shall be compensated to reflect the difference between the ISO Control Area boundary and the Westley end of the line by incorporating the losses associated with the actual flows across the transmission line. In addition, the telemetered MW and MVar values should be compensated. The meter is currently a Quad-4 that has the capability of metering Watthours and Varhours. The meters are located in the 230 kV yard. This is a bi-directional meter with the accuracy rating of 0.3 %. The instrument transformers (C.T.s and P.T.s) for revenue meters are located in the 230 kV switchyard at the Interconnection point of the 230 kV bus. All P.T.s and C.T.s are rated at 0.3 % accuracy class with CT ratio of 400:1 and PT ratio of 1200:1. The meter's MW and MVar milliamp analog outputs (bi-directional) and the MWh and MVarh pulse outputs are provided to the ISO's EMS RTU. The MWh and MVarh pulse (bi-directional) outputs are also stored in internal data recorders for MV90 use. The meters are polled by Western's / SMUD's MV90 system via dial-up telephone lines on a daily basis. Western/SMUD shall allow for ISO polling of the data recorders. The MW and MVar analog value can be read using the available second communication port of the RTU.

- **TRACY-TESLA INTERCONNECTION**

The Interconnection point with the Western system is metered on 230 kV at Tracy Substation. The meter is currently a Quad-4 that has the capability of metering Watthours and Varhours. The meters are located in the 230 kV yard. This is a bi-

exercised consistent with directions when issued by SMUD as control area operator and in coordination with the ISO as the immediately adjacent Control Area Operator as necessary and appropriate.

Common point of Tie Line Control Metering: Westley Substation

- **Herdlyn 69 Interconnection**

Western and ISO share 69 kV busses at adjacent substations, which use common meters that are switched with the energized bus.

Western has operational control, ownership, maintenance, switching and clearance jurisdiction of the Tracy 69 kV bus and all its associated facilities including disconnect switch 2451 and 2453 (PCB 2452) and 2455 on the Tracy 69 kV bus, which control will be exercised consistent with directions when issued by SMUD as control area operator and in coordination with the ISO as the immediately adjacent Control Area Operator as necessary and appropriate.

PG&E has ownership, maintenance, switching and clearance jurisdiction of the line and all its associated facilities at Herdlyn Substation. The ISO has the operational control of this facility and will be involved in coordination of switching. SMUD will have operational control of this facility and will be involved in coordination of switching.

Common point of Tie Line Control Metering: Tracy Substation

ATTACHMENT B

basis. Western/SMUD shall allow for ISO polling of the data recorders. The MW and MVar analog value can be read using the available second communication port of the RTU.

- **TRACY 230 INTERCONNECTION**

The Interconnection point with the Western system is metered on the 525/230/34.5 kV transformers KT1A and KT2A at Tracy Substation. The meter is currently a Quad-4 that has the capability of metering Watthours and Varhours. The meters are located in the 230 kV yard. This is a bi-directional meter with the accuracy rating of 0.3 %. The instrument transformers (C.T.s and P.T.s) for revenue meters are located in the 230 kV switchyard at the Interconnection point of the 230 kV bus. All P.T.s and C.T.s are rated at 0.3 % accuracy class with CT ratio of 400:1 and PT ratio of 1200:1. The meter's MW and MVar milliamp analog outputs (bi-directional) and the MWh and MVarh pulse outputs are provided to the ISO's EMS RTU. The MWh and MVarh pulse (bi-directional) outputs are also stored in internal data recorders for MV90 use. The meters are polled by Western's / SMUD's MV90 system via dial-up telephone lines on a daily basis. Western/SMUD shall allow for ISO polling of the data recorders. The MW and MVar analog value can be read using the available second communication port of the RTU.

- **TRACY-WESTLEY INTERCONNECTION**

The Interconnection point with the Western system is metered on 230 kV at Tracy Substation. The meter shall be compensated to reflect the difference between the ISO Control Area boundary and the Westley end of the line by incorporating the losses associated with the actual flows across the transmission line. In addition, the telemetered MW and MVar values should be compensated. The meter is currently a Quad-4 that has the capability of metering Watthours and Varhours. The meters are located in the 230 kV yard. This is a bi-directional meter with the accuracy rating of 0.3 %. The instrument transformers (C.T.s and P.T.s) for revenue meters are located in the 230 kV switchyard at the Interconnection point of the 230 kV bus. All P.T.s and C.T.s are rated at 0.3 % accuracy class with CT ratio of 400:1 and PT ratio of 1200:1. The meter's MW and MVar milliamp analog outputs (bi-directional) and the MWh and MVarh pulse outputs are provided to the ISO's EMS RTU. The MWh and MVarh pulse (bi-directional) outputs are also stored in internal data recorders for MV90 use. The meters are polled by Western's / SMUD's MV90 system via dial-up telephone lines on a daily basis. Western/SMUD shall allow for ISO polling of the data recorders. The MW and MVar analog value can be read using the available second communication port of the RTU.

- **TRACY-TESLA INTERCONNECTION**

The Interconnection point with the Western system is metered on 230 kV at Tracy Substation. The meter is currently a Quad-4 that has the capability of metering Watthours and Varhours. The meters are located in the 230 kV yard. This is a bi-

Issued by: Charles F. Robinson, Vice President and General Counsel

Issued on: January 31, 2005

Effective: Upon Notice After January 1, 2005

exercised consistent with directions when issued by SMUD as control area operator and in coordination with the ISO as the immediately adjacent Control Area Operator as necessary and appropriate.

Common point of Tie Line Control Metering: Westley Substation

- **Herdlyn 69 Interconnection**

Western and ISO share 69 kV busses at adjacent substations, which use common meters that are switched with the energized bus.

Western has operational control, ownership, maintenance, switching and clearance jurisdiction of the Tracy 69 kV bus and all its associated facilities including disconnect switch 2451 and 2453 (PCB 2452) and 2455 on the Tracy 69 kV bus, which control will be exercised consistent with directions when issued by SMUD as control area operator and in coordination with the ISO as the immediately adjacent Control Area Operator as necessary and appropriate.

PG&E has ownership, maintenance, switching and clearance jurisdiction of the line and all its associated facilities at Herdlyn Substation. The ISO has the operational control of this facility and will be involved in coordination of switching. SMUD will have operational control of this facility and will be involved in coordination of switching.

Common point of Tie Line Control Metering: ~~Herdlyn~~Tracy Substation

ATTACHMENT C

