May 15, 2015

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

Re: California Independent System Operator Corporation
Docket Nos. ER08-1178-___, and EL08-88-___
March 2015 Exceptional Dispatch Report (Chart 1 data)

Dear Secretary Bose:

Pursuant to the Commission's September 2, 2009 and May 4, 2010 orders in the above referenced dockets, the California Independent System Operator Corporation submits the attached report. The attached report provides details concerning Exceptional Dispatches the Commission directed to be included in "Chart 1" as set forth in Appendix A of the September 2 order, as modified by the ISO's September 14 motion for clarification, which the Commission granted in its May 4 order. The attached report provides Chart 1 data for the month of March 2015.

Respectfully submitted,

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Exceptional Dispatch Report

Table 1: March 2015

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Introduction

This report is filed pursuant to FERC's September 2, 2009 and June 4, 2010 orders in ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15th of each month and one issued on the 30th of each month. This report provides data on the frequency and reasons for Exceptional Dispatches issued in March 2015.

The Nature of Exceptional Dispatch

The CAISO can issue exceptional dispatch instructions for a resource as a pre-day-ahead unit commitment, which may also include an indicative exceptional dispatch energy schedule, a post-day-ahead unit commitment, or a real-time exceptional dispatch[1]. A pre-day-ahead commitment is an exceptional dispatch instruction that commits a resource at or above its physical minimum operating level in the day-ahead market. A post-day-ahead market commitment is an exceptional dispatch instruction that commits a resource at or above its physical minimum operating level in the real-time market. A real-time exceptional dispatch instruction is a dispatch of a resource at or above its physical minimum operating point. For the purposes of this report, a real-time exceptional dispatch above the resource day-ahead award is considered an incremental exceptional dispatch instruction and an exceptional dispatch below the day-ahead award is considered a decremental dispatch instruction.

The CAISO issues exceptional dispatch instructions to maintain the reliability of the grid when the market software cannot do so. Whenever the CAISO issues an exceptional dispatch instruction, the operator logs the dispatch and the associated reason.

Many of the exceptional dispatches listed below in Table 1, were to satisfy either a local area or system reliability requirements, and are classified into local generation requirements, transmission management requirements, non-modeled transmission outages or other non-modeled constraints or requirementsand intertie emergency assistance. All of the transmission procedures are available on the CAISO website[2].

The following reason for exceptional dispatch instructions in March 2015 was not related to specific generation or transmission operating procedures: Software Limitation, when an exceptional dispatch instruction was used to bridge schedules across days for resources with a minimum down time of 24 hours, as the CAISO software does not handle multi day commitment. For instance, a resource has a day-ahead schedule from 0600 till 2300, and then is shut down in

[1] The CAISO can issue exceptional dispatch instructions subject to authority of the CAISO Tariff Section 34.9 and in accordance with CAISO Operating Procedure 2330 (formerly M-402).

[2] A list of all of the CAISO's publicly available Operating Procedures are available at the following link: **http://www.caiso.com/thegrid/operations/opsdoc/index.html**

2400. If this resource had a minimum down time of 24 hours and it is required the following day, then the CAISO issues an exceptional dispatch to commit this resource in 2400 so that it can be dispatched economically in the following day. Software limitation reason was also used for exceptional dispatches to manually issue shut down instructions to a resource because of a temporary Automatic Dispatch System ("ADS") failure, or similar issues. There were a few other reasons used to explain exceptional dispatch instructions in March 2015, which are self explanatory.

As mentioned earlier, the data shown in Table 1 is based on a template specified in the September 2009 order[3]. Each entry in Attachment A is a summary of exceptional dispatches classified by (1) the reason for the exceptional dispatch; (2) the location of the resource by Participating Transmission Owner ("PTO") service area; (3) the Local Reliability Area ("LRA") where applicable; (4) the market in which the exceptional dispatch occurred (day-ahead vs. real-time); and (5) the date of the exceptional dispatch. For each classification the following information is provided: (1) Megawatts (MW); (2) Commitment (3) Inc or Dec (4) Hours; (5) Begin Time; and (6) End Time.

The MW column shows the range of exceptional dispatch instructions in MW for the classification. The Commitment column specifies if there was a unit commitment for the classification. The INC/DEC/NA column specifies if there was an incremental dispatch, a decremental dispatch, or only a unit commitment. If the exceptional dispatch was only a unit commitment, the column shows NA for the classification. The Begin Time column shows the start of exceptional dispatch for the classification and the End Time column shows the end of exceptional dispatch for the classification. The column Hours is the difference between end time and begin time rounded up to the next hour. The data shown is further explained by way of example in Attachment A.

Table 1 indicates that there were a total of 84 exceptional dispatches in March 2015, as compared to 94 exceptional dispatches in February 2015. Exceptional dispatches issued for the following reasons accounted for approximately 64 percent of the total exceptional dispatches during the reporting period: start up instructions, planned transmission outages and shutdown and operating procedure numbers.

[3] The data in Table 1 is principally SLIC information supplemented with data from the Market Quality System (MQS). It is the most accurate currently available and it is worth noting that this data has been through the T+38B initial statement process wherein many unresolved issues are fixed. The CAISO believes that this data will correlate well with the settlements data that will be available when the CAISO files the Table 2 report for the reporting period.

Table 1: Exceptional Dispatches in March 2015

California Independent System Operator Corporation
Exceptional Dispatch Report
May 15, 2015

Chart 1: Table of Exceptional Dispatches for Period 01/March/2015 - 31/March/2015

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	Contingency Dispatch	PG&E	Bay Area	3/28/2015	296	No	INC	2	14:20	15:29
2	RT	Incomplete or Inaccurate Transmission	N/A	N/A	3/31/2015	60- 70	No	INC	3	21:40	23:59
3	RT	Incomplete or Inaccurate Transmission	PG&E	Humboldt	3/3/2015	10- 16	No	INC	11	9:47	19:59
4	RT	Incomplete or Inaccurate Transmission	PG&E	Humboldt	3/8/2015	10	No	INC	3	21:49	23:59
5	RT	Incomplete or Inaccurate Transmission	PG&E	Humboldt	3/9/2015	10	No	INC	1	0:00	0:59
6	RT	Load Forecast Uncertainty	PG&E	Bay Area	3/23/2015	64	No	INC	18	6:00	23:59
7	RT	Load Forecast Uncertainty	PG&E	N/A	3/23/2015	280	No	INC	11	13:00	23:59
8	RT	Load Forecast Uncertainty	SCE	LA Basin	3/23/2015	20	No	INC	14	10:00	23:59
9	RT	Market Disruption	SCE	LA Basin	3/29/2015	697	No	INC	1	19:03	19:14
10	RT	MSG Plant Startup	SDG&E	San Diego-IV	3/22/2015	155	No	INC	3	9:45	11:59
11	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/5/2015	15	No	INC	8	8:38	15:59
12	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/6/2015	13	No	INC	5	8:00	12:59
13	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/9/2015	10- 20	No	INC	16	7:35	22:59
14	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/10/2015	16- 32	No	INC	15	7:54	21:59
15	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/13/2015	15	No	INC	12	8:25	19:59
16	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/23/2015	24	No	INC	16	7:00	22:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
17	RT	Operating Procedure Number 7110 and Constraint	PG&E	Humboldt	3/24/2015	23	No	INC	6	9:10	14:59
18	RT	Operating Procedure Number 7630 and Constraint	SCE	LA Basin	3/6/2015	50	No	INC	2	12:17	13:59
19	RT	Operating Procedure Number and Constraint	PG&E	Humboldt	3/27/2015	15	No	INC	2	22:50	23:59
20	RT	Operating Procedure Number and Constraint	PG&E	Humboldt	3/28/2015	10- 30	No	INC	24	0:00	23:44
21	RT	Operating Procedure Number T138 and Constraint	PG&E	Humboldt	3/30/2015	20- 40	No	INC	1	23:01	23:59
22	RT	Other Reliability Requirement	PG&E	Bay Area	3/26/2015	20	No	INC	3	15:48	18:14
23	RT	Other Reliability Requirement	SCE	LA Basin	3/12/2015	46	No	INC	1	8:15	8:59
24	RT	Planned Transmission Outage and Constraint	N/A	N/A	3/29/2015	10- 75	No	INC	14	8:10	21:29
25	RT	Planned Transmission Outage and Constraint	N/A	N/A	3/30/2015	10	No	INC	5	2:10	6:59
26	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	3/23/2015	49	No	INC	8	11:00	18:59
27	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	3/27/2015	25	No	INC	6	7:00	12:59
28	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/10/2015	16	No	INC	10	8:43	18:29
29	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/11/2015	13	No	INC	5	11:00	15:44
30	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/17/2015	16- 20	No	INC	15	9:25	23:59
31	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/19/2015	20- 50	No	INC	8	16:44	23:59
32	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/20/2015	10- 30	No	INC	17	0:00	16:29
33	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/29/2015	15	No	INC	1	23:00	23:59
34	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/30/2015	60	No	INC	4	19:11	22:44

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
35	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	3/31/2015	11	No	INC	1	18:05	18:59
36	RT	Planned Transmission Outage and Constraint	PG&E	Kern	3/12/2015	29- 30	No	INC	7	10:10	16:29
37	RT	Planned Transmission Outage and Constraint	PG&E	N/A	3/14/2015	180	No	INC	17	7:00	23:59
38	RT	Planned Transmission Outage and Constraint	PG&E	N/A	3/21/2015	330	No	INC	11	9:50	19:59
39	RT	Planned Transmission Outage and Constraint	PG&E	N/A	3/22/2015	331	No	INC	12	10:00	21:59
40	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	3/11/2015	20	No	INC	3	17:00	19:59
41	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	3/17/2015	20- 40	Yes	INC	2	18:45	19:59
42	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	3/21/2015	20	No	INC	12	7:11	18:14
43	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	3/25/2015	43- 45	No	INC	2	8:52	10:29
44	RT	Planned Transmission Outage and Constraint	SCE	LA Basin	3/10/2015	190- 285	No	INC	10	7:14	16:59
45	RT	Planned Transmission Outage and Constraint	SCE	LA Basin	3/24/2015	94	No	INC	6	11:05	16:59
46	RT	Planned Transmission Outage and Constraint	SCE	LA Basin	3/26/2015	190	No	INC	10	10:25	19:59
47	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	3/9/2015	310- 560	No	INC	10	9:16	19:14
48	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	3/10/2015	450- 513	No	INC	7	12:00	18:44
49	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	3/24/2015	45- 95	No	INC	6	11:25	16:59
50	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	3/27/2015	20	No	INC	10	6:00	15:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
51	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	3/30/2015	20	No	INC	15	6:00	20:59
52	RT	Shutdown	N/A	N/A	3/18/2015	0	No	INC	1	23:15	23:44
53	RT	Shutdown	SCE	LA Basin	3/1/2015	0	No	INC	1	16:45	17:44
54	RT	Shutdown	SCE	LA Basin	3/18/2015	0	No	INC	1	23:15	23:59
55	RT	Shutdown	SCE	LA Basin	3/19/2015	0	No	INC	1	0:00	0:14
56	RT	Shutdown	SCE	LA Basin	3/20/2015	0	No	INC	1	13:10	14:09
57	RT	Shutdown	SCE	LA Basin	3/26/2015	0	No	INC	1	22:15	22:59
58	RT	Shutdown	SDG&E	San Diego-IV	3/1/2015	0	No	INC	1	14:55	15:54
59	RT	Software Limitation	PG&E	Bay Area	3/26/2015	.	No	INC	4	8:00	11:59
60	RT	Software Limitation	PG&E	Fresno	3/28/2015	0	No	INC	1	19:50	19:54
61	RT	Software Limitation	PG&E	N/A	3/20/2015	350- 355	No	INC	2	0:25	1:59
62	RT	Software Limitation	PG&E	N/A	3/21/2015	350- 351	No	INC	1	0:35	0:59
63	RT	Software Limitation	PG&E	N/A	3/25/2015	250	No	INC	2	22:15	23:59
64	RT	Software Limitation	SCE	LA Basin	3/26/2015	0	No	INC	23	0:00	22:59
65	RT	Start-Up Instructions	PG&E	Bay Area	3/13/2015	0	No	INC	1	12:10	13:09
66	RT	Start-Up Instructions	PG&E	Bay Area	3/17/2015	0	No	INC	2	21:45	22:49
67	RT	Start-Up Instructions	PG&E	NCNB	3/31/2015	0	No	INC	1	11:30	11:44
68	RT	Start-Up Instructions	SCE	LA Basin	3/1/2015	0	No	INC	1	14:10	15:04
69	RT	Start-Up Instructions	SCE	LA Basin	3/7/2015	0	No	INC	3	19:15	21:44
70	RT	Start-Up Instructions	SCE	LA Basin	3/10/2015	0	No	INC	1	19:15	20:09
71	RT	Start-Up Instructions	SCE	LA Basin	3/27/2015	0	No	INC	1	22:15	23:14
72	RT	Start-Up Instructions	SCE	LA Basin	3/31/2015	0	No	INC	2	11:45	13:44
73	RT	Unit Testing	PG&E	Bay Area	3/13/2015	148	No	INC	2	10:06	11:19
74	RT	Unit Testing	PG&E	Bay Area	3/17/2015	146	No	INC	2	20:08	21:09
75	RT	Unit Testing	PG&E	Bay Area	3/24/2015	120- 240	No	INC	14	7:55	21:29
76	RT	Unit Testing	PG&E	Bay Area	3/25/2015	320- 400	No	INC	15	6:20	20:29
77	RT	Unit Testing	PG&E	Bay Area	3/27/2015	396- 600	No	INC	5	10:00	14:44

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
78	RT	Unit Testing	SCE	Big Creek-Ventura	3/27/2015	75	No	INC	8	10:10	17:14
79	RT	Unit Testing	SDG&E	San Diego-IV	3/27/2015	40	No	INC	5	11:15	15:59
80	RT	Unplanned Outage	PG&E	Bay Area	3/12/2015	64	No	INC	17	7:00	23:59
81	RT	Voltage Support	PG&E	Sierra	3/23/2015	20	No	INC	12	6:00	17:59
82	RT	Voltage Support	SCE	N/A	3/6/2015	172	No	INC	13	11:50	23:59
83	RT	Voltage Support	SCE	N/A	3/8/2015	172	No	INC	3	8:45	11:29
84	RT	Voltage Support	SDG&E	San Diego-IV	3/22/2015	155	No	INC	6	10:15	15:59

Appendix A: Explanation by Example

All examples listed below are based on fictitious data.

Example 1: Exceptional Dispatch Instructions Prior to DAM

In this fictitious example, the CAISO issued an exceptional dispatch instruction for resource A to be committed at its physical minimum (Pmin) of 50 MW from hours ending 5 through 10 for a generation procedure 7630. Similarly, the CAISO issued additional instructions to resources B and C for the same reason as shown in Table 2. Generally, exceptional dispatches prior to the day-ahead market are commitments to minimum load. In this case the dispatch levels are all at minimum load.

Table 2: Instructions Prior to Day-Ahead Market

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch Level (MW)	Reason
01-Jul-09	DA	A	SCE	LA BASIN	05:00	10:00	50	7630
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	7630
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	7630

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. Thus the MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead, however the exceptional dispatches are nearly always just commitments, as in this example. The Begin Time column shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time column shows hour ending 23, as this was the hour with last dispatch. It is also possible that there might be some hours between the begin time and the end time where there might not be exceptional dispatch instructions for the given reason, meaning that the range between the begin time and end time can include null hours with no dispatch.

Table 3: FERC Summary of Instructions Prior to DAM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time
1	DA	7630	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00

Example 2: Incremental Exceptional Dispatch Instructions in RTM

In this fictitious example, the CAISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 30 MW from hours ending 7 through 11 after completion of the day-ahead market for the transmission procedure 7110. This resource did not have a day-ahead award in those hours. The CAISO issued another exceptional dispatch instruction to resource B, to be dispatched at 40 MW from hours ending 8 through 9 in real-time for the transmission procedure 7110. This resource had a day-ahead schedule of 20 MW from the day-ahead market, which implies that this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C are shown in Table 4.

Table 4: Incremental Exceptional Dispatch Instructions in RTM

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch Level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason
01-Jul-09	RT	A	PG&E	Humboldt	06:00	11:00	30	0	Yes	INC	30	7110
01-Jul-09	RT	B	PG&E	Humboldt	07:00	09:00	40	20	No	INC	20	7110
01-Jul-09	RT	C	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	7110
01-Jul-09	RT	C	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	7110

This data is summarized as shown in Table 5 and is classified by reason, resource location, local reliability area, and trade date. The MW column in Table 5 is the range of MW; in this case the minimum instruction MW is 0 MW for resource C which occurs from hours ending 13 through 15. The maximum instruction occurs in hours ending 8 & 9, as during these two hours both resources A and B have an ED MW of 30MW and 20MW, respectively. This adds up to 50 MW. Thus the MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. This column shows a commitment if there was a single commitment in the entire interval of exceptional dispatch. The Begin Time column shows the time of the first dispatch of the day. This is a time not a range. Similarly the End Time column shows a time and not a range. Exceptional dispatches occurred between these two times. Since there was a commitment between the begin time and end time then the Commitment column displays yes for the summary. Similarly, the INC/DEC column shows an INC as there was an incremental dispatch between the begin time and end time. As mentioned in the previous example it is possible that there might be some hours between the begin time and end time where there were no exceptional dispatch instructions for the given reason.

Table 5: FERC Summary of ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time
1	RT	7110	PG&E	Humboldt	1-Jul-09	0-50	Yes	INC	15	06:00	20:00

Example 3: Decremental Exceptional Dispatch Instructions in RTM

This example highlights decremental exceptional dispatch instructions in the real-time market. In this fictitious example the CAISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 20 MW from hours ending 15 through 20 after completion of the day-ahead market for the transmission procedure 7430. The CAISO issued additional exceptional dispatch instructions for resources B and C; details of those instructions are shown in Table 6.

Table 6: Decremental Exceptional Dispatch Instructions in RTM

Date	Market Type	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch Level (MW)	Day-Ahead Award (MW)	Commitment	INC/ DEC	ED (MW)	Reason
01-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430
01-Jul-09	RT	B	PG&E	Fresno	07:00	09:00	40	60	No	DEC	20	7430
01-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	7430

This data is summarized according to FERC convention as shown in Table 7. This summary classifies the data by reason, resource location, local reliability area, and trade date. Please note that inc and dec are broken out separately. The inc entry is self-explanatory and similar to the previous example. Regarding the dec entry the MW column is the range of MW; in this case the minimum dec instruction is 10 MW (actually -10MW as it is a dec) for resource C which occurs from hours ending 10 through 14. The maximum instruction occurs from hours ending 7 through 9, when resource B was issued a dec instruction of 20 MW. Thus the MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time.

Table 7: FERC Summary of Decremental ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time
1	RT	7430	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00
1	RT	7430	PG&E	Fresno	1-Jul-09	10-20	Yes	DEC	8	07:00	14:00

CERTIFICATE OF SERVICE

I hereby certify that I have served the foregoing document upon the parties listed on the official service lists in the above-referenced proceedings, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated at Folsom, California this 15th day of May 2015.

/s/ Anna Pascuzzo
Anna Pascuzzo