![California ISO]	Operating Procedure	Procedure No.	5320B
		Version No.	1.0
		Effective Date	4/25/25
Pre-Commercial Automated Dispatch System (ADS) Resource Test Procedure		**Distribution Restriction: None**	

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Purpose

The Pre-Commercial Automated Dispatch System (ADS) Test serves a crucial purpose in the resource integration process. This test is designed to verify and ensure that newly integrated resources possess the capability to accurately interpret and follow dispatch operating levels transmitted through the ADS. By conducting this test, system operators can confirm that the resources are responsive to real-time dispatch instructions, which is essential for maintaining grid stability and efficiency. The test evaluates the resource's ability to receive, process, and execute ADS signals promptly and accurately, thus validating its readiness for commercial operation within the power system.

1. Responsibilities

Generation Dispatcher	Generation Dispatcher approval is required for the test. A detailed description of the test, including start and end times, MW Schedule, and location of resource must be provided to the Generation Dispatcher.

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Energy Data Acquisition Specialists (EDAS) Test Administrator	Verifies all pre-test requirements and ensures the Real-Time Generation Dispatcher is updated on test parameters, including active Exceptional Dispatches and testing times. The Generation Dispatcher must provide FINAL approval before proceeding.
Scheduling Coordinators (SC)/ Testing Technician	SC ensures that all OMS cards are current and serves as the central point of contact for the resource.

2. Scope/Applicability

2.1 Background

The verification process ensures that newly integrated resources can accurately interpret, process, and follow dispatch operating signals. The test validates each resource's ability to receive incoming signals, process dispatch information, and execute required adjustments according to ADS parameters before commercial operation approval.

2.2 Scope / Applicability

The Pre-Commercial ADS Resource Test consists of six "5-minute dispatches" at varying levels. These dispatches are delivered via the Automated Dispatch System (ADS). The Resource is encouraged to follow the ADS dispatch as closely as possible within the requested timeframe. The test lasts approximately 30 minutes. The following data points will be captured to measure the expected results against the actual performance of the resource: UCON, DOT, UPMW, UGMW, UNMW, MXENER, SOC, and kV.

- This procedure applies to resources in trial operation approved for Initial synchronization, but not yet commercial operations.

- Scheduling Coordinators must maintain outage cards to reflect the resource's available capacity approved for Commercial Operation.

- Resources requesting testing must comply with California ISO (CAISO) direct telemetry standards and be visible on the CAISO Energy Management System (EMS).

- The CAISO EDAS Test Administrator will create test energy Exceptional Dispatches (ED) in the real-time market at approved times and MW amounts.

- Ramp Rates will be limited to no more than 50 MW's/min.

- Battery resources should be positioned to have a 40-60% state of charge (SOC) at the start of the test.

- Resources will be dispatched at percentages of available testing limits: 10/25/PMin/15/37/OFF

- For batteries, the first two dispatches will be in the charging direction, followed by one dispatch at PMin, and then two dispatches in the discharging direction.

3. Testing Details

3.1 Requesting Test

Request Date and Time

Before submitting an OMS request, please email EDAS@CAISO.com to reserve a date and time. EDAS will respond with the next available slot. In the subject line, please write "Request Pre-COD DOT Test" and specify both a primary and secondary test date.

Once the date and time have been confirmed, the SC will submit an OMS card.

Prior to T-7

The Scheduling Coordinator will submit an outage request through webOMS, using the Nature of Work "NEW_GENERATOR_TEST_ENERGY." The Unit Testing card functions as a "child" card for testing. It provides CAISO dispatchers with essential information. Additionally, it informs them which resources can be backed down to commercial operation if system conditions prevent testing. It's crucial to include this information in the Short Description. The request should state that the Resource will be performing a Pre-Commercial ADS Test, specifying the exact times and dates. Ensure that the OMS card is properly completed with detailed descriptions in all relevant fields. As an example, reference Operating Procedure 5320 Resource Trial Operations and Test Energy Process.

3.2 Prior to T-3

To ensure testing proceeds smoothly, the Scheduling Coordinator will submit any changes to the request at least three (3) business days before the approved test date. This includes modifications to:

- Start or end dates
- Times
- Test duration
- Approved MW amount
- Data Quality Issues

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Submitting changes with less than three (3) days' notice may result in rescheduling your test, as accommodating these changes depends on system conditions at the time.

3.3 T-1

The EDAS Test Administrator will verify that the resource has an approved test OMS card and stable quality data for the past 24 hours. They will also ensure the resource is accurately represented on EMS one-line diagrams and IFS pages.

3.4 Real-Time Day of Resource Test (90 minutes before start of test)

CAISO EDAS Test Administrator
1. **Verify** RIG Data stable for last 24 hrs.
2. **Verify** OMS Approved Card for timeframe.
3. **Notify** Generation Dispatcher for final approval.
• **Ensure** test energy will not create/contribute to congestion.
4. **Conduct** "Resource ADS Test" tailgate with SC /Testing Technician.
• **Verify** Resource to be tested <u>and</u> **discuss** the plan.
5. **Ensure** RTM is consuming ED's and sending correct DOT to ADS.
6. **Monitor** PI Vision for resource performance.
• **Record** all important observations.
7. **Continue to monitor** resource ensuring all systems are operating as planned.
8. After 30 minutes, **contact** SC/Testing Technician for debrief.
• **Field** any questions, **collect** <u>and</u> **record** all observations.
9. **End** Test.
10. **Notify** Generation Dispatcher of completed test.

3.5 Post Test

The EDAS Test Administrator will provide the results to the Scheduling Coordinator. This will include a written summary and PI trend illustrating the results. The EDAS Test Administrator will email these results to all relevant parties and create Service Desk tickets for all issues observed during the testing process.

4. Supporting Information

Operationally Affected Parties

Shared with the public.

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References

Resources studied in the development of this procedure and that may have an effect upon some steps taken herein include but are not limited to:

CAISO Tariff	N/A
CAISO Operating Procedure(s)	
NERC Standards	N/A

Definitions

Unless the context otherwise indicates, any word or expression defined in the Master Definitions Supplement to the CAISO Tariff shall have that meaning when capitalized in this Operating Procedure.

The following additional terms are capitalized in this Operating Procedure when used as defined below:

None.

Version History

Version	Change	Date
1.0	New procedure attachment created.	4/25/25

5. Periodic Review Procedure

Review Criteria & Incorporation of Changes

There are no specific criteria for reviewing or changing this document, follow instructions CAISO Operating Procedure 5510.

Frequency

Every three (3) years.

Appendix

No references at this time.

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