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| SCR Number | [829](https://www.ercot.com/mktrules/issues/SCR829) | SCR Title | API for the NDCRC Application |
| Date of Decision | | May 15, 2025 | |
| Action | | Approved | |
| Timeline | | Normal | |
| Estimated Impacts | | Cost/Budgetary: Between $100k and $200k  Project Duration: 7 to 10 months | |
| Effective Date | | Upon system implementation | |
| Priority and Rank Assigned | | Priority – 2025; Rank – 4560 | |
| Supporting Protocol or Guide Sections/Related Documents | | None | |
| System Change Description | | This System Change Request (SCR) adds an Application Programming Interface (API) to upload unit testing data and download unit testing data from the Net Dependable Capability and Reactive Capability (NDCRC) application. | |
| Reason for Revision | | [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 1 – Be an industry leader for grid reliability and resilience  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 2 - Enhance the ERCOT region’s economic competitiveness with respect to trends in wholesale power rates and retail electricity prices to consumers  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 3 - Advance ERCOT, Inc. as an independent leading industry expert and an employer of choice by fostering innovation, investing in our people, and emphasizing the importance of our mission  General system and/or process improvement(s)  Regulatory requirements  ERCOT Board/PUCT Directive  *(please select ONLY ONE – if more than one apply, please select the ONE that is most relevant)* | |
| Justification of Reason for Revision and Market Impacts | | The NDCRC application is a standalone system that was designed to track test data for a few specific types of tests such as Automatic Voltage Regulator (AVR)/Power System Stabilizer (PSS) and reactive capability curve. It does not provide an API for Qualified Scheduling Entities (QSEs) to upload or download data, nor does it communicate with other systems. As such, it is not suitable for any expanded usage. In April 2024, ERCOT decided to expand the use of this application to require that all unit testing requests be submitted through NDCRC. Since the system is a standalone system, QSEs must manually enter and/or modify every single testing request and ensure that the data submitted is consistent with what is in other QSE systems. In addition to the manual work, this new process increases the opportunity for errors. By including API functionality, this SCR will enable direct communication with other systems in ERCOT like the Outage Scheduler, increasing the efficiency and accuracy of market and system operations in general. The drastic change of the scope of this application as well as the heavy manual work involved on the QSE side highlight an urgent need to implement an API to streamline the process. For these reasons, this effort should be prioritized by ERCOT as soon as ERCOT resources are free from Real-Time Co-optimization plus Batteries (RTC+B) system development obligations. | |
| PRS Decision | | On 1/15/25, PRS voted unanimously to recommend approval of SCR829 as submitted. All Market Segments participated in the vote.  On 2/12/25, PRS voted unanimously to table SCR829. All Market Segments participated in the vote.  On 3/12/25, PRS voted unanimously to endorse and forward to TAC the 1/15/25 PRS Report and 3/11/25 Impact Analysis for SCR829 with a recommended priority of 2025 and rank of 4560. All Market Segments participated in the vote. | |
| Summary of PRS Discussion | | On 1/15/25, participants reviewed SCR829, noting it was discussed extensively at the Technology Working Group (TWG).  On 2/12/25, participants reviewed the 2/7/25 ERCOT comments.  On 3/12/25, participants reviewed the 3/11/25 Impact Analysis and considered a priority and rank for SCR829. | |
| TAC Decision | | On 3/26/25, TAC voted unanimously to recommend approval of SCR829 as recommended by PRS in the 3/12/25 PRS Report. All Market Segments participated in the vote. | |
| Summary of TAC Discussion | | On 3/26/25, there was no additional discussion beyond TAC review of the items below. | |
| TAC Review/Justification of Recommendation | | Revision Request ties to Reason for Revision as explained in Justification  Impact Analysis reviewed and impacts are justified as explained in Justification  Opinions were reviewed and discussed  Comments were reviewed and discussed (if applicable)  Other: (explain) | |
| ERCOT Board Decision | | On 4/8/25, the ERCOT Board voted unanimously to recommend approval of SCR829 as recommended by TAC in the 3/26/25 TAC Report. | |
| PUCT Decision | | On 5/15/25, the PUCT approved SCR829 and accompanying ERCOT Market Impact Statement as presented in Project No. 54445, Review of Protocols Adopted by the Independent Organization. | |

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| **Opinion** | |
| Credit Review | Not applicable |
| Independent Market Monitor Opinion | IMM has no opinion on SCR829. |
| ERCOT Opinion | ERCOT supports approval of SCR829. |
| ERCOT Market Impact Statement | ERCOT Staff has reviewed SCR829 and believes it provides a positive market impact by enabling QSEs to upload and download unit testing data from the NDCRC application, reducing manual demands and opportunities for error. |

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| Sponsor | |
| Name | Shuye Teng, Andy Nguyen, Amanda Deleon, Bill Barnes, Blake Holt (“Joint Sponsors”) |
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| Market Segment | Independent Generator, Independent Power Marketer (IPM), Independent Generator, Cooperative |

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| **Comments Received** | |
| **Comment Author** | **Comment Summary** |
| ERCOT 020725 | Proposed an alternative schedule for the development of an Impact Analysis for SCR829 |
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| **Market Rules Notes** | |

None

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| Proposed System Change |

**Issue:**

The Net Dependable Capability and Reactive Capability (NDCRC) application is a standalone system that was designed to track test data for a few specific types of tests such as Automatic Voltage Regulator (AVR)/Power System Stabilizer (PSS) and reactive capability curve. It does not provide an Application Programming Interface (API) for Qualified Scheduling Entities (QSEs) to upload or download data, nor does it communicate with other systems. As such, it is not suitable for any expanded usage. In April 2024, ERCOT decided to expand the use of this application to require that all unit testing requests be submitted through NDCRC. Since the system is a standalone system, QSEs must manually enter and/or modify every single testing request and ensure that the data submitted is consistent with what is in other QSE systems. In addition to the manual work, this new process increased the opportunity for errors. Including API functionality, as proposed in this System Change Request (SCR), will also enable direct communication with other systems in ERCOT like the Outage Scheduler and thus increase the efficiency and accuracy of market and system operations in general. The drastic change of the scope of this application as well as the heavy manual work involved on the QSE side highlight an urgent need to implement an API to streamline the process.

**Resolution:**

ERCOT provides an API for the NDCRC which will greatly improve the submission process and enhance accurate communication between ERCOT and QSEs, enable automated data uploading and downloading, and facilitate seamless communication with various QSE systems such as market operations and energy management systems.