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| SCR Number | [829](https://www.ercot.com/mktrules/issues/SCR829) | SCR Title | API for the NDCRC Application |
| Date Posted | December 5, 2024 |
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| Requested Resolution  | Normal  |
| 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 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 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. Including API functionality, as proposed in this 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. 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. |

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| Market Segment | Independent Generator, Independent Power Marketer (IPM), Independent Generator, Cooperative |

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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.