



# PJM Manual 01- Control Center and Data Exchange Requirements Attachment “F” Updates- MOC Remote Operations

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- PJM Manual 01 Attachment “F” was developed and implemented at the start of the COVID 19 pandemic to provide remote operations guidance to the MOC’s should imminent risk of COVID 19 infection affect staffing the MOC control centers . Initially this temporary attachment became effective April 12, 2020, and is set to expire on December 31, 2021.
- As we have progressed further into the COVID pandemic, it has become apparent we need to make attachment ”F” (MOC Remote Operations) a more permanent part of PJM Manual 01, not due to the risk of COVID 19, but due to unforeseen Exceptional Circumstances (i.e. severe weather, natural disaster, civil unrest, pandemic events, etc.)

- Remove references to “COVID 19” and replaced with “Exceptional Circumstance”
- Define “Exceptional Circumstance”- (i.e. an event or effect that can be neither anticipated nor controlled, including but not limited to any act of a public enemy, war, insurrection, riot, fire, severe weather, natural disaster, flood, civil unrest, explosion, pandemic or other public health emergency, as reasonably determined by PJM)

- Updated NERC Compliance Contact information.
- Key Reliability requirements for Remote Operations
  - Updated Requirement #4 for clarification.
  - Separated Requirement #6 into two requirements #6 and #7 for clarification.

- Removed “as reasonably determined by PJM” from the opening paragraph:

PJM recognizes that, as a consequence of Exceptional Circumstances (~~i.e.~~ an event or effect that can be neither anticipated nor controlled, including but not limited to any act of a public enemy, war, insurrection, riot, fire, severe weather, natural disaster, flood, civil unrest, explosion, pandemic or other public health emergency, ~~as reasonably determined by PJM~~), Market Participants who maintain Market Operations Centers (MOCs) may find it necessary to move some or all of their control center operations to one or more non-traditional remote locations, such as a new temporary facility or the residences of control center personnel, in an effort to protect the safety and well-being of staff while maintaining control room functions. For purposes of this document, it is assumed that a member company’s Energy Management System (EMS) is still functional and that only the MOC dispatch function is relocating to alternate (non-traditional) location. PJM has identified potential risks in moving to such remote control center operations which must be mitigated through compliance with the requirements set forth in this attachment such as:

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**Manual 01, Attachment “F” update**



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