

## Appendix E - Extreme Contingencies

**Effective Date: February 7, 2024**

**Review By Date: February 7, 2025**

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## I. PURPOSE

The purpose of this document is to identify examples of Extreme Contingencies **not** addressed by the NORMAL or EMERGENCY System Contingency criteria of OP-19; these contingencies are **not** respected for Real-Time operations except by specific exception when determined by analysis.

### 1. Examples of Extreme Contingencies

- A. Loss of the entire capability of a generating station.
- B. Loss of all transmission circuits emanating from a generating station, switching station, DC terminal or substation.
- C. Loss of all transmission circuits on a common right-of-way.
- D. Permanent three-phase fault on any generator, transmission circuit, transformer or bus section, with delayed clearing and with due regard to reclosing. This delayed clearing could be due to circuit breaker, relay system or signal channel malfunction.
- E. The sudden dropping of a large load or major load center.
- F. The effect of severe power swings arising from disturbances outside of the NPCC interconnected systems.
- G. The operation or partial operation of a RAS/ACS for an event or condition for which it was not intended to operate.
- H. Sudden loss of fuel delivery system to multiple generating stations (i.e., gas pipeline contingencies, including both gas transmission lines and gas mains).

**OP-19 APPENDIX E REVISION HISTORY**

**Document History** (This Document History documents action taken on the equivalent NEPOOL Procedure prior to the RTO Operations Date as well revisions made to the ISO New England Procedure subsequent to the RTO Operations Date.)

Rev. No.	Date	Reason
Rev 1	07/22/98	
Rev 2	02/01/05	Updated to conform to RTO
Rev 3	09/02/12	Annual review by procedure owner; Format changes, font to Arial, added disclaimer to 1 <sup>st</sup> page footer, and "Hard Copy is Uncontrolled" to all footers, replaced page numbers with Page X of Y format, added table of contents; Added description of the purpose of the document Modified items B., F., H. and added item I to be consistent with wording in new NPCC Directory #1; Deleted item G, content now covered in Appendix J. Renumbered remaining items H and I as G and H;
Rev 3.1	05/07/14	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0201.0010 Section 5.6 and sub-Section 5.6.1;
Rev 3.2	03/04/15	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0201.0010 Section 5.6 and sub-Section 5.6.1;
Rev 3.3	02/29/16	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0201.0010 Section 5.6 and sub-Section 5.6.1;
Rev 3.4	01/30/17	Annual review by Procedure owner, no changes required at this time; Completed the administrative changes (including adding required corporate identity to all footers) required to publish a Minor Revision;
Rev 3.5	09/21/17	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1;
Rev 3.6	09/02/18	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1;
Rev 3.7	06/05/19	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1;
Rev 3.8	12/13/19	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1;
Rev 3.9	10/29/20	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1;
Rev 3.10	05/11/21	Periodic review performed requiring no intent changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1
Rev 3.11	03/30/22	Periodic review performed requiring no intent changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1
Rev 3.12	02/14/23	Annual review performed by procedure owner requiring no intent changes; Changed SPS to ACS in Section I.1.G; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1.

Rev. No.	Date	Reason
Rev 3.13	02/07/24	Annual review performed by procedure owner requiring no intent changes; Minor capitalization and grammar changes; Made administrative changes required to publish a Minor Revision per SOP-RTMKTS.0210.0010 Section 5.10 and sub-Section 5.10.1.