

Appendix A -  
Itemized Equipment  
Maintenance of Communications, Computers,  
Metering and Building Services

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**NOTE**

1. The following indicate that resources are needed to accomplish repairs:
  - A. Immediate.
  - B. Regular staff hours except if more than sixteen (16) hours removed from service.
  - C. Regular staff hours.
2. Any equipment **not** specifically mentioned in Table 1 will be assessed on a case-by-case basis with the Operating Staffs at ISO New England, the Local Control Center (LCC) and supervisory control and data acquisition (SCADA) Centers.

**Table 1 - Itemized Equipment Maintenance of Communications, Computers, Metering and Building Services**

	Maintenance Priority (See NOTE 1)
<b>Control Room Computer Equipment for ISO New England MCC or BCC</b>	
Any equipment or device that may interrupt or alter the flow of data critical to system operation via the Energy Management System (EMS) / unit dispatch and scheduling (UDS)	A
Control Room:	
Printers / copiers	B
Operator console keyboards / mouse	A
Operator console monitors	A
Operator console computers	A
<b>Control Room Support Equipment for ISO New England MCC or BCC</b>	
Computer heating, ventilation and air conditioning (HVAC) equipment	A
Fire protection system	A
Control Room HVAC equipment	A
Uninterruptible power supply (UPS)	A
Frequency measurement devices	B
Security system devices	B
Pool Control Error Calculator (PCEC)	A
Wallboard / situational awareness displays	B
Outage scheduling software	B
Telephone voice recorder	A

<b>Communication Systems</b>	
Dispatcher microwave telephone equipment - microwave equipment directly affecting the ISO New England facility. Includes all channels such as loop and spur RF equipment affecting loop operation, all loop closing equipment, and all other loop and Local Control Center spur station equipment having an effect on ISO New England channels	A
<b>ISO New England Voice Communication Systems</b>	
Telephone circuit - ISO New England / Local Control Center / SCADA Centers; or resources' Designated Entity or Demand Designated Entity	B
Telephone circuit - ISO New England/NYISO	A
Telephone circuit - ISO New England/New Brunswick	A
Telephone circuit - ISO New England/Hydro Quebec-TransEnergie	A
Control room direct dial outside lines	A
Shared telecommunication network (STN) voice circuits	A
Emergency notification system (ENS)	A
<b>ISO New England Telemetry, and Data Communications</b>	
Data links and circuits supporting ICCP - ISO New England/ Local Control Center /SCADA Centers	A
ISO New England tie-line telemetry - primary circuit	A
ISO New England tie-line telemetry - secondary circuit	B
Reliability Coordinator Information System (RCIS)	A
Weather services (includes data links, and monitors)	B
Remote Terminal Units (RTUs) located at ISO	A
Shared Telecommunication Network (STN) data circuits supporting ICCP	A
<b>ISO New England Control Center, Local Control Center, SCADA Center Computers, Inter Control Center Communications Protocol (ICCP), and Remote Terminal Unit (RTU) Equipment</b>	
Any equipment or device that may interrupt or alter the flow of data critical to system operation via the ISO New England EMS / electronic dispatch software	A
RTU communication, and control circuits for units capable of providing regulation	A
RTU for electronic dispatch of generation	A
RTU and analog telemetry supplying data to Local Control Center computers	B
Communications channels for RAS/ACS protection systems	A

**OP-2 Appendix A 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	02/01/05	Updated to conform to RTO terminology
Rev 2	02/22/05	Update to include the Outage Scheduler under the 'A' requirements which prioritizes it as requiring immediate attention for repairs
Rev 3	03/23/05	Update to include the ICU Auto Call and the ENS under the 'A' requirements which prioritizes it as requiring immediate attention for repairs
Rev 4	12/18/08	Annual Review by Procedure Owner. Revised terminology for current equipment Changed Outage Scheduler to Outage Scheduling software
Rev 5	6/1/10	Add Demand Designated Entity Communications equipment to the procedure
Rev 6	08/03/12	Biennial review by procedure owner; Administrative changes: changed font to Arial, converted text to a table format, changed pagination format to "x of y", Added Uncontrolled disclaimer to 1 <sup>st</sup> page Footer, added "Hard Copy is Uncontrolled" disclaimer to all page Footers, modified to provide Headings for automatic TOC generation, added a TOC. In Control Room Support Equipment at ISO New England, deleted ICU Auto Call data row, defined and added acronym ENS; In LCC, SCADA Center etc section, defined and added acronym ICCP, defined and added acronym for RTU for use in later instances modified section titles and edited Note 2 to delete reference to Mystic and FPL.
Rev 7	05/07/14	Biennial review by procedure owner; Updated to remove DMT language; Administrative changes required to publish the next Revision
Rev 8	03/14/16	Biennial review by procedure owner completed; Added "OP-2" to the note in the last item in the ISO New England Telemetering, and Data Communications section of Table 1;
Rev 8.1	02/01/18	Biennial review by procedure owner completed requiring no changes; Made administrative changes required to publish a Minor Revision (including adding required corporate document identity to all page footers);
Rev 9	11/01/19	Biennial review by procedure owner completed; Globally, editorial changes consistent with current conditions, practices and management expectations;
Rev 10	10/07/21	Biennial review by procedure owner completed; Deleted reference to party line in ISO New England Voice Communications section; Clarified what removed meant in Note section above Table 1;
Rev 10.1	10/04/23	Biennial review by procedure owner requiring no intent changes; Defined acronyms; Removed reference to SPS; Made administrative changes required to publish a Minor Revision.