

# NERC

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# Standards

Ken McIntyre, Vice President of Standards and Compliance  
Board of Trustees Meeting  
August 11, 2016

**RELIABILITY | ACCOUNTABILITY**



- Reliability Benefit
  - Reliable communication facilities for exchange of information
  - Modifications address internal communication
    - Between control centers of the same functional entity
    - Between control center and field personnel
- Action
  - Adopt COM-001-3 - Communications

- Reliability Benefit
  - Resolves the issues identified in the System Protection and Control Task Force report
  - Addresses the outstanding directives concerning PRC-001.1(ii)
  - Generator Operator Protection Systems training requirements
- Action
  - Adopt PER-006-1 – Specific Training for Personnel



# Questions and Answers

# Revisions to the NERC Rules of Procedure

Charles A. Berardesco  
Senior Vice President and General Counsel  
Board of Trustees Meeting  
August 11, 2016

**RELIABILITY | ACCOUNTABILITY**



- Targeted revisions are proposed to Appendices 2, 5A, and 5B of the NERC Rules of Procedure (ROP)
  - Appendix 2, Definitions used in the Rules of Procedure
  - Appendix 5A, Organization Registration and Certification Manual
  - Appendix 5B, Statement of Compliance Registry Criteria
- To incorporate revised definitions in Reliability Standards of:
  - Frequency Response Sharing Group
  - Regulation Reserve Sharing Group





# Questions and Answers

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## Revised MOU and Service Contract with New Brunswick Energy and Utilities Board

Charles A. Berardesco  
Senior Vice President and General Counsel  
Board of Trustees Meeting  
August 11, 2016

**RELIABILITY | ACCOUNTABILITY**





- As the international ERO, visibility, insight into bulk power system reliability risks are a priority
  - Reliability risks seldom isolated to one jurisdiction
  - Visibility allows risk-informed program design and resource allocation
  - Visibility requires sharing confidential information, including non-U.S. confidential information, across the ERO Enterprise
- Guiding Principles:
  - NERC, Regional Entity (RE), and international party(ies) will be signatories
  - Confidential information will be shared between NERC and the RE
  - Consistency with Regional Delegation Agreements (RDA) and recognize NERC's oversight role

- 2008 – NERC, New Brunswick (NB) Energy Ministry, and NB System Operator sign MOU
- 2013 – NB’s 2006 *Electricity Act* (Act) amended; NB Regulation 2013-66 (Regulation) implements the Act
- Reliability responsibilities under Act and Regulation:
  - New Brunswick Energy and Utilities Board (NBEUB)
    - adopts and enforces reliability standards
    - designates a compliance body to assist with compliance responsibilities under the New Brunswick Compliance Monitoring and Enforcement Program
  - NERC designated as standards setting body

- Update responsibilities consistent with the Act and Regulation
- Require sharing of Confidential and Non-Public Information
- Revise funding section with standardized language
- Define relationship between MOU and Service Contract
  - Service Contract cross-references and recognizes MOU
  - NERC's oversight role recognized



# Questions and Answers



**E-ISAC**  
ELECTRICITY  
INFORMATION SHARING AND ANALYSIS CENTER

# E-ISAC Update

Marcus Sachs, Senior VP & Chief Security Officer  
Board of Trustees  
August 11, 2016

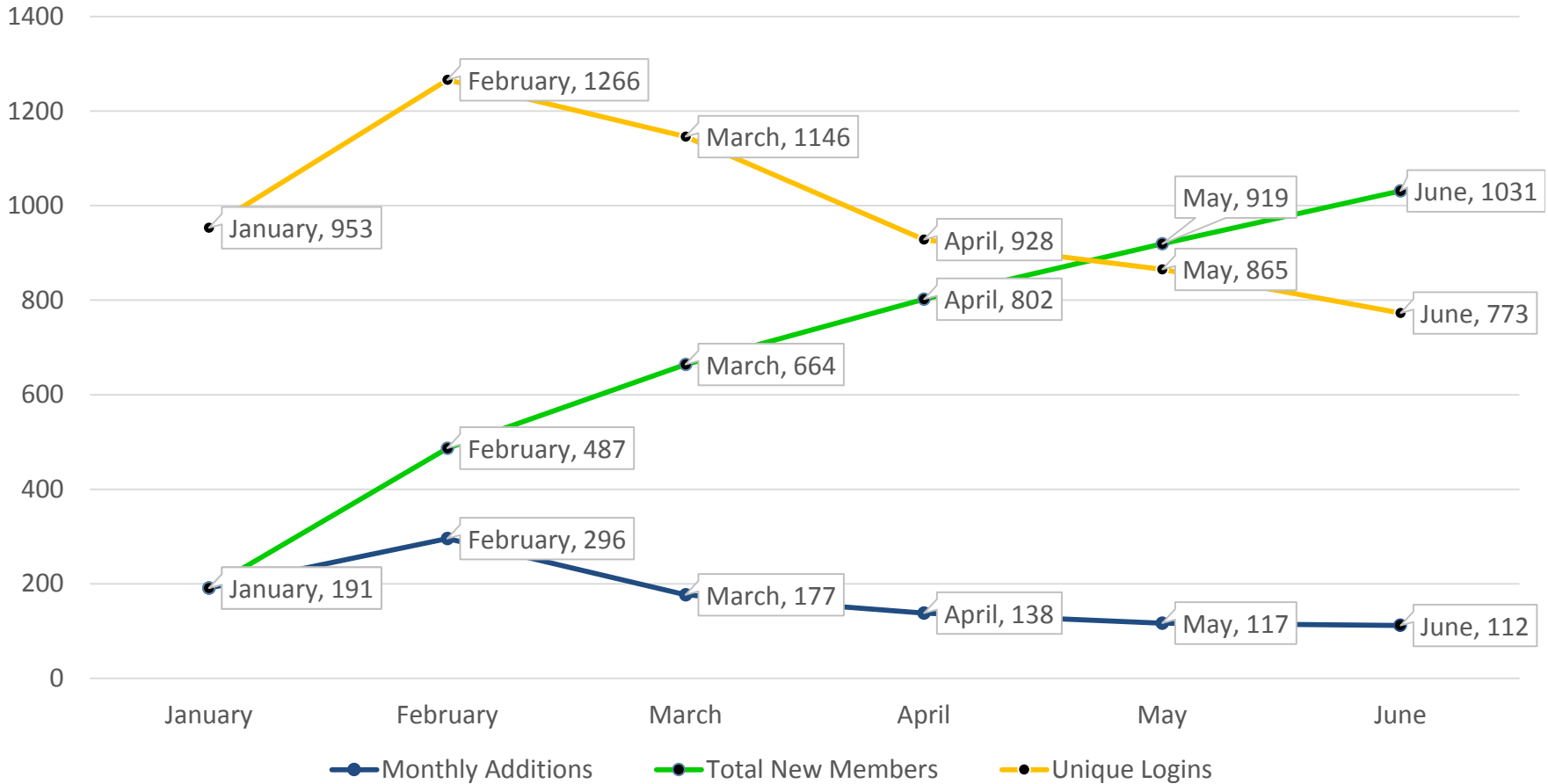
RESILIENCY | RELIABILITY | SECURITY





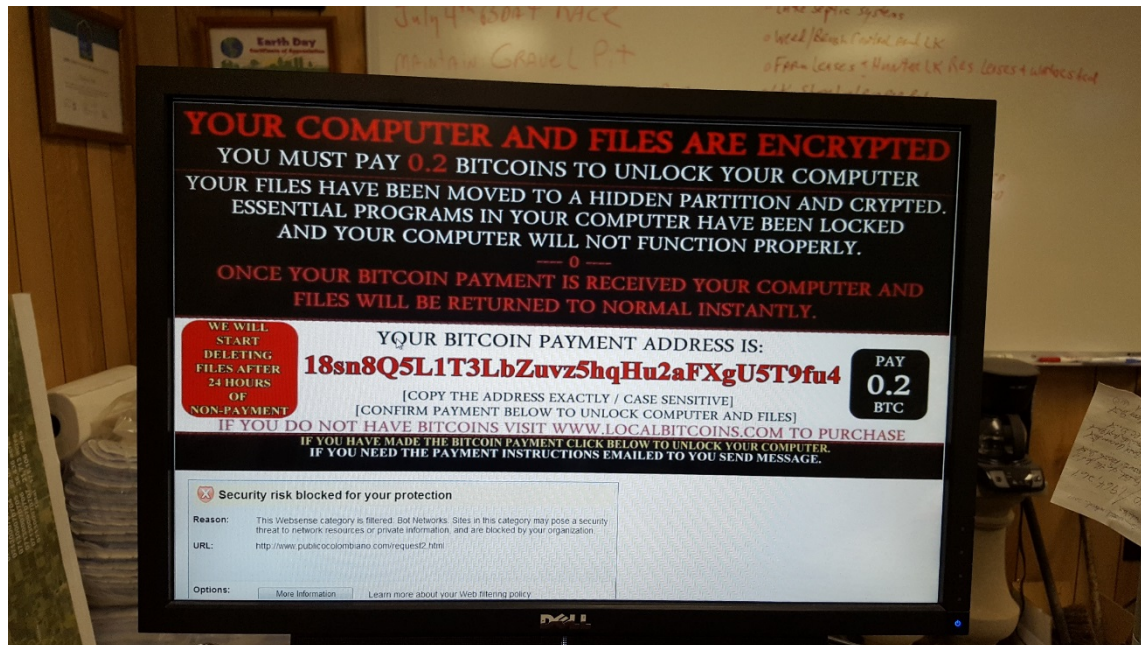
- Sharing and reporting
  - 193 E-ISAC staff posts to the portal
  - 70 member responses to the portal items
  - 71 additional posts to the portal from members
  - 107 calls to the E-ISAC hotline
  - 371 new portal accounts
- Engagement (monthly average during the quarter)
  - 250 webinar attendees
  - 511 downloads of the daily report
- Active portal membership on June 30, 2016
  - 828 NERC registered entities (60% of 1389 registered entities)
  - 335 non-NERC registered entities (17% of estimated 2000 eligible)
  - 58 partners (government, other ISACs, etc.)

## New E-ISAC Members and Unique Logins by Month in 2016

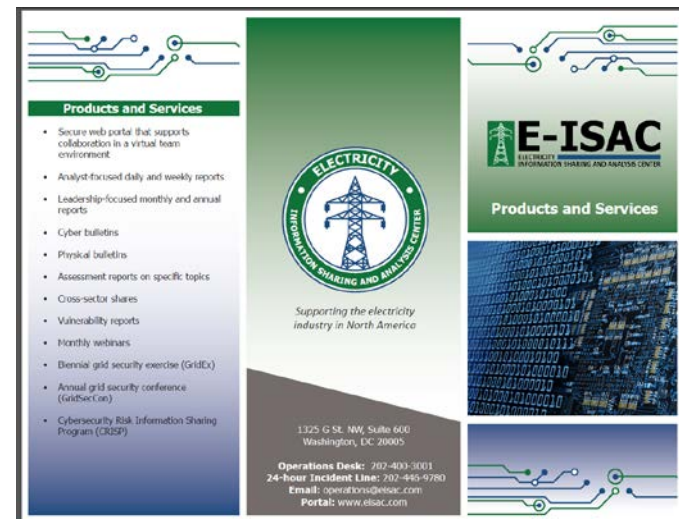
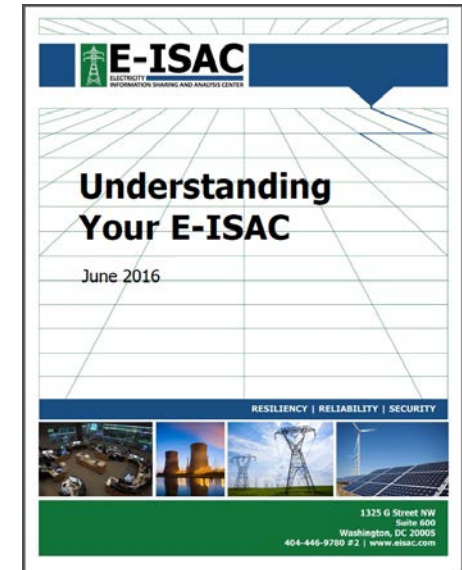


- NERC Advisory

- Issued in May in response to rise in ransomware attacks
- Summarized a detailed technical report issued earlier in May
- Extortion via software that encrypts files may surpass credential harvesting of financial information



- *Understanding Your E-ISAC*
  - Joint effort between the E-ISAC and the Member Executive Committee
  - Explains how the E-ISAC works and what to share
  - Outlines products and services
  - Explains the NERC – E-ISAC separation protocol
- E-ISAC Brochure
  - Designed as a “take-away” document
  - Summarized products and services
  - Explains how to join and what to share
  - Provides contact information



- Staffing

- Twenty employees plus two contractors in the Washington, DC office
- Physical security analysis positions open; recruiting under way
- Member services manager (ESCC recommendation) recruiting under way
- Initiative to integrate DNG-ISAC analyst under way

- Technology

- Network and email migration nearing completion
- Portal-to-platform project initiated with interviews of MEC members and other stakeholders
- Funding for the portal improvements supported by MEC members



- 2016 Work Plan approved at the March MEC meeting
  - Publish a “How-To” Guide (*“Understanding Your E-ISAC”*)
  - Develop E-ISAC Products and Services List
  - Define E-ISAC Role in Classified Briefings
  - Establish User Communities
  - Develop Strawmen for E-ISAC Reports
  - Pilot Automated Information Sharing (Platform)
  - Initiate Improvements to the Portal
  - Develop Plan to Evaluate 24/7 Watch and Notification Capability
  - Conduct Site Pen Testing
- All items on track at end of Q2
  - Some have been completed



# Questions and Answers