



North American Electric Reliability Council

Princeton Forrestal Village, 116-390 Village Boulevard, Princeton, New Jersey 08540-5731

CIPC Working Group/Task Force

Deliverables and Work Schedule

| | |
|--|---|
| CIPC Subcommittee: | Security Planning |
| Working Group/Task Force Name: | Control Systems Security Working Group |
| 1. Statement of Need | |
| <p>In collaboration with vendors, relevant industry groups, and government entities, identify, develop, and support programs and materials that secure and protect Control Systems.</p> | |
| 2. Background | |
| <p>Control Systems are the “brains” of the bulk electric system and other critical infrastructures. These systems control and monitor the Critical Infrastructure necessary to operate the bulk electric system. They were designed for functionality and performance, and cyber security was not a primary element.</p> <p>CSSWG is charged with working with other appropriate organizations to develop economical and practical practices and procedures to increase security in existing control systems. CSSWG is also charged to look to the future and take appropriate steps to promote the integration of security features and function into the design of products and systems for new Control Systems. In addition, the CSSWG must work to improve day-to-day administration and maintenance of Control Systems in areas such as, but not limited to, patch management, cyber and physical intrusion detection, software installation and administration, and incident response.</p> | |
| 3. Objectives | |
| <ul style="list-style-type: none"> • Work with NERC, Electric Sector groups, other industry Sector groups, vendors, and government entities to enhance their understanding of security issues within control systems and provide subject matter expertise. • Provide guidance and awareness in the form of Security Guidelines (SG), Reference Documents (RD), and/or Reports. • Work with utilities, vendors, consultants, industry groups, government entities, and control system test facilities to identify and influence the implementation of appropriate security technology and tools, for both existing and future Control System implementations | |

4. Members and Structure**(THIS SECTION IS UNDER REVIEW.)**

| | <u>Name</u> | <u>Tel</u> | <u>Email</u> |
|-----------------------------|------------------|--------------|-----------------------------------|
| Chair | Tom Flowers | 713-207-2122 | tom.flowers@centerpointenergy.com |
| Vice-Chair | Linda Nappier | 314-554-3595 | lnappier@ameren.com |
| EC Sponsor | Jamey Sample | 916-608-5891 | jsamples@caiso.com |
| NERC Staff | Lou Leffler | 609-452-8060 | lou.leffler@nerc.net |
| | Franklin Dessuit | 219-853-5217 | fdessuit@NiSource.com |
| | Jerry Freese | 614-716-2351 | gsfreese@aep.com |
| Asset Owners | Dave Norton | 504-310-5763 | DNORTO1@entergy.com |
| | Robin Goatey | 314-554-4661 | RGoatey@ameren.com |
| | Bob Mathews | 415 973-0609 | rpm4@pge.com |
| | Patrick Miller | | Patrick.Miller@PacifiCorp.com |
| | Joe Weiss | 408-253-7934 | joseph.weiss@us.kema.com |
| Vendors/ Consultants | Stan Klein | 301-881-4087 | sklein@cpcug.org |
| | Scott Mix | 215-997-4500 | scott.mix@us.kema.com |
| | Brent Brobak | 425-739-3601 | brent.brobak@areva-td.com |
| | Al Cooley | 508-337-0317 | acooley@v.com |

| | | | |
|------------------------------------|------------------|---------------------|------------------------------|
| Government & Others | Jeff Dagle | 509-375-3629 | jeff.dagle@pnl.gov |
| | Hank Kenchington | 202-586-1878 | henry.kenchington@hq.doe.gov |
| | Mike Peters | 540-284-0184 | petersml@nswc.navy.mil |
| | Ronald Hebert | 301-688-6509 | rjheber@nsa.gov |
| | Tom Kropp | 650-855-2751 | TKropp@epri.com |
| | Patrick Ansaldi | | U.S. CERT |
| | Juan Asenjo | | Thales |
| | Michael Baca | | Sandia NL |
| | Roman Shaffer | | ras3@nrc.gov |
| | Al Tardiff | 301-415-7606 | AXT1@nrc.gov |
| | Mark Bruen | 301-415-7015 | mark.bruen@us.kema.com |
| | Michael Beehler | 215-997-4500 | Burns & MacDonald |
| | Simon Bowe | | Southern Co. |
| | Eric Chester | | Booz Allen |
| | Thomas Donahoe | | Areva |
| | Bob Evans | | Idaho NL |
| | Bob Hill | | Idaho NL |
| | Dennis Holstein | | Opus Publishing |
| | Rick Kaun | | Matrikon |
| | Brent Kephart | | ION |
| Roger Lee | | Zero Defect | |
| Jim McGlone | | DOE | |
| Paul Oman | | U. of Idaho | |
| Associates | Tom Phinney | | Honeywell |
| | Charles Reilly | | SCE |
| | Russell Robinson | | Areva |
| | Edmond Rogers | | Amren |
| | Dave Sanders | | Consultant |
| | Paul Skare | | Siemens |
| | Mike Steele | | TDI |
| | Scott Swartz | | DOD |
| | Bob Tassan | | TDI |
| | Juan Torres | | Sandia NL |
| | Kurt Wagner | | Idaho NL |
| | Bob Web | | ISA |
| | Rita Wells | | Idaho NL |
| | Tobias Whitney | | Burns & MacDonald |
| | Karl Williams | | NISCC-UK |
| | Bill Winters | | William.Winters@aps.com |
| Eric Yarger | | Idaho NL | |
| Terry Bjerkein | 314-554-3311 | Tbjerken@ameren.com | |

5. Deliverables and Work Schedule

1. Publish a 2005 Top “10” CS Vulnerabilities with mitigation steps for entities with various levels of security in place (i.e. fundamental, intermediate, and advanced).
2. Development initiatives:
 - Security Guideline (SG) on Information Security – Encryption of Email (2005)
 - Reference Document (RD) on “Zero Day” event detection/correlation (2006)
 - SG on Incident Response (Cyber & Physical) (2006)
 - RD on Wireless (802.11+) in SCADA applications (2007)
 - SG on Information security between CCs and SS/PPs (2007)
3. Maintain a relationship with other NERC groups and other standard development bodies.
4. Review the Security Guidelines as requested by the SGWG.
5. Pursue outreach liaison activities within the Electric Sector and National Labs.
6. Pursue outreach with other Industry Sectors and Groups.

6. References and Resources