

# ***CI P Reliability Standards Update***

*6 December 2011*

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**Ontario Power Generation**

# Agenda:

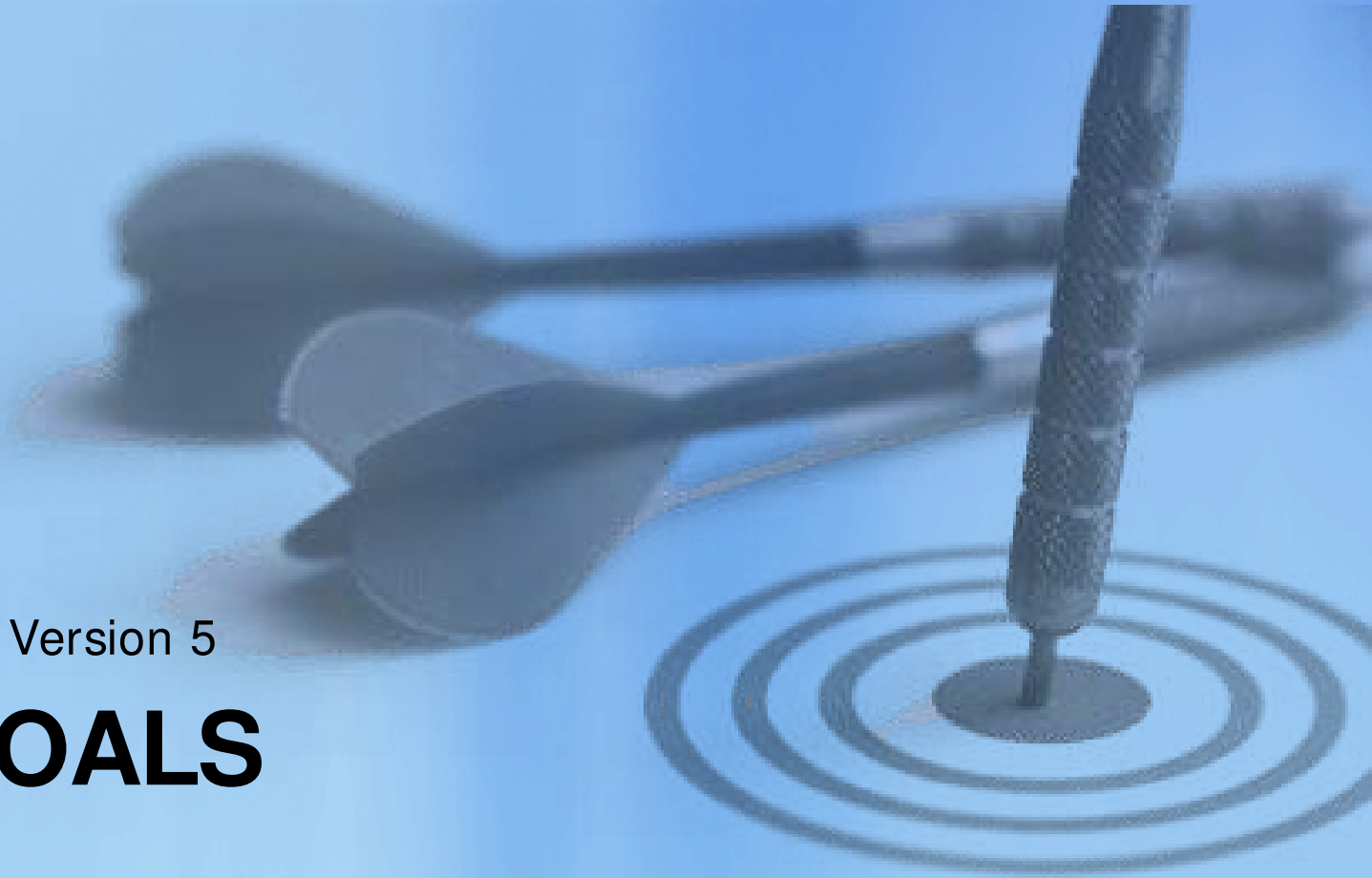
- Introduction
- CIP Version 5:
  - Goals
  - Schedule
  - Scoping
  - Implementation Plan
- Q&A

# Introduction:

- 22 years experience in Utility Sector
- P&C Field Engineer turned IT turned manager
- Experience with SCADA, protections, real time systems, telecommunication, networking
- Manager of OPG's "Technical" Compliance Section for hydro and thermal generation
- Member of NPCC Task Force on Infrastructure Security and Technology (TFIST)
- Member of the NERC Order 706 SDT (CIP Standards)

CIP Version 5

# GOALS



# **CI P Version 5 Goals:**

**Goal 1:** To address the remaining Requirements-related directives from all CIP related FERC orders, all approved interpretations, and CAN topics within applicable existing requirements.

**Goal 2:** To develop consistent identification criteria of BES Cyber Systems and application of cyber security requirements that are appropriate for the risk presented to the BES.

**Goal 3:** To provide guidance and context for each Standard Requirement.

# **CI P Version 5 Goals:**

**Goal 4:** To leverage current stakeholder investments used for complying with existing CI P requirements.

**Goal 5:** To minimize technical feasibility exceptions.

**Goal 6:** To develop requirements that foster a “culture of security” and due diligence in the industry to complement a “culture of compliance”.

**Goal 7:** To develop a realistic and comprehensible implementation plan for the industry.

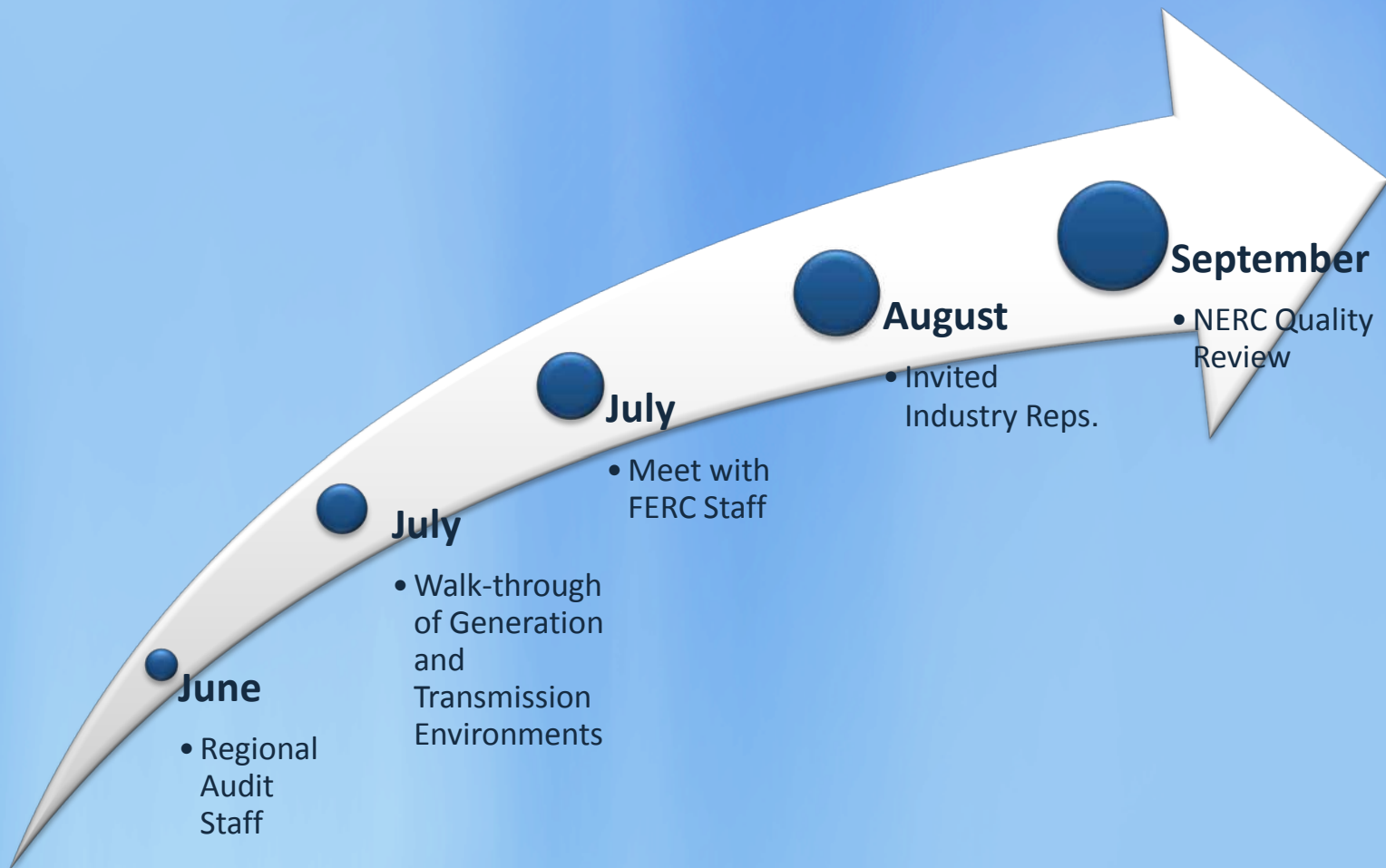


The background of the slide is a light blue gradient. In the upper half, there is a blurred image of a calendar page. The word "THURSDAY" and the number "17" are visible on the calendar. A black pen is lying diagonally across the calendar page. The overall aesthetic is professional and clean.

CIP Version 5

# **SCHEDULE**

# Development Schedule:



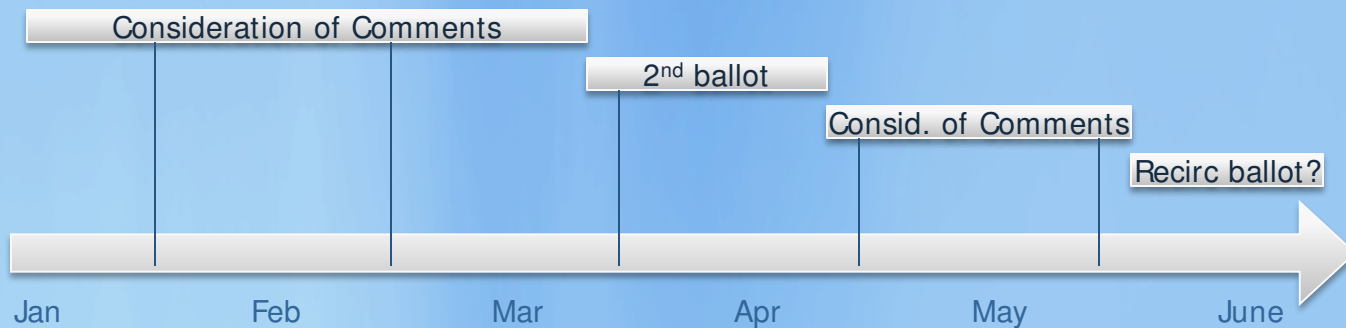


# **Comment and Ballot Period:**

- **November 7, 2011 – January 6, 2012**
  - Formal 60-day comment period
- **December 16, 2011 – January 6, 2012**
  - Initial Ballot

# 2012 Schedule:

- **January 6 – March 26**
  - Consideration of Comments
- **March 26 – April 27**
  - 30-day posting for comment and successive ballot
- **June 6–22**
  - Possible Recirculation ballot



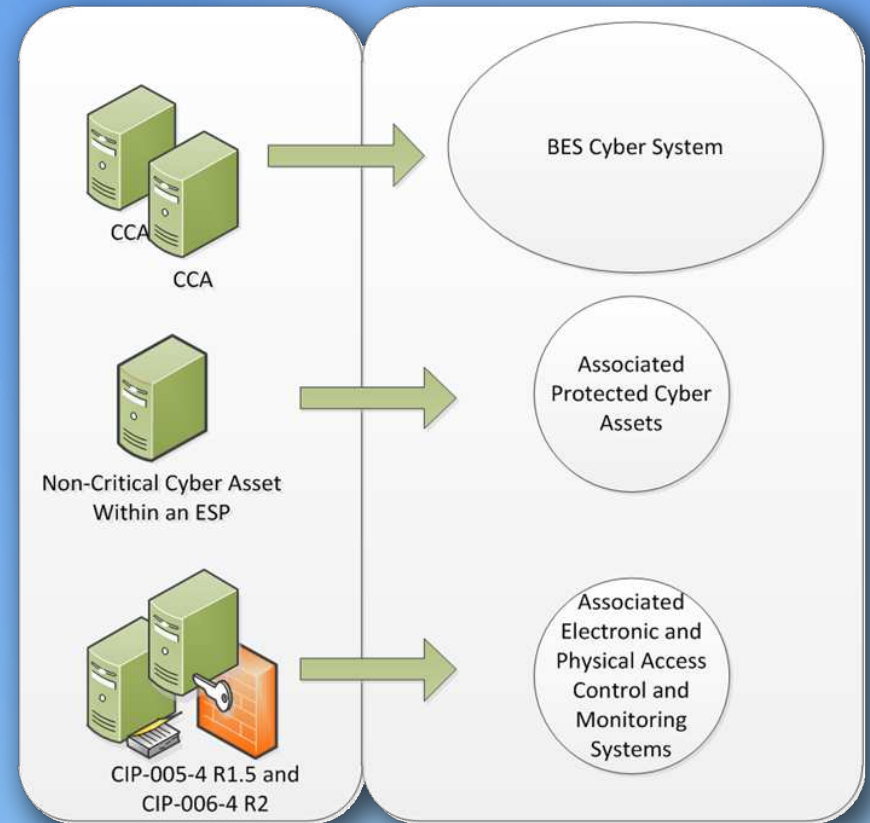


CIP Version 5

# SCOPING

# Approach:

- Initially based on CIP002 V4 Attachment-A “*Critical Asset Criteria*”
- A shift from identifying Critical Cyber Assets to identifying BES Cyber Systems
- Directly supporting BES Reliability Operating Services



# Impact Categorization:

- **High Impact**

- Large Control Centers
- Additional controls beyond CIPv4

- **Medium Impact**

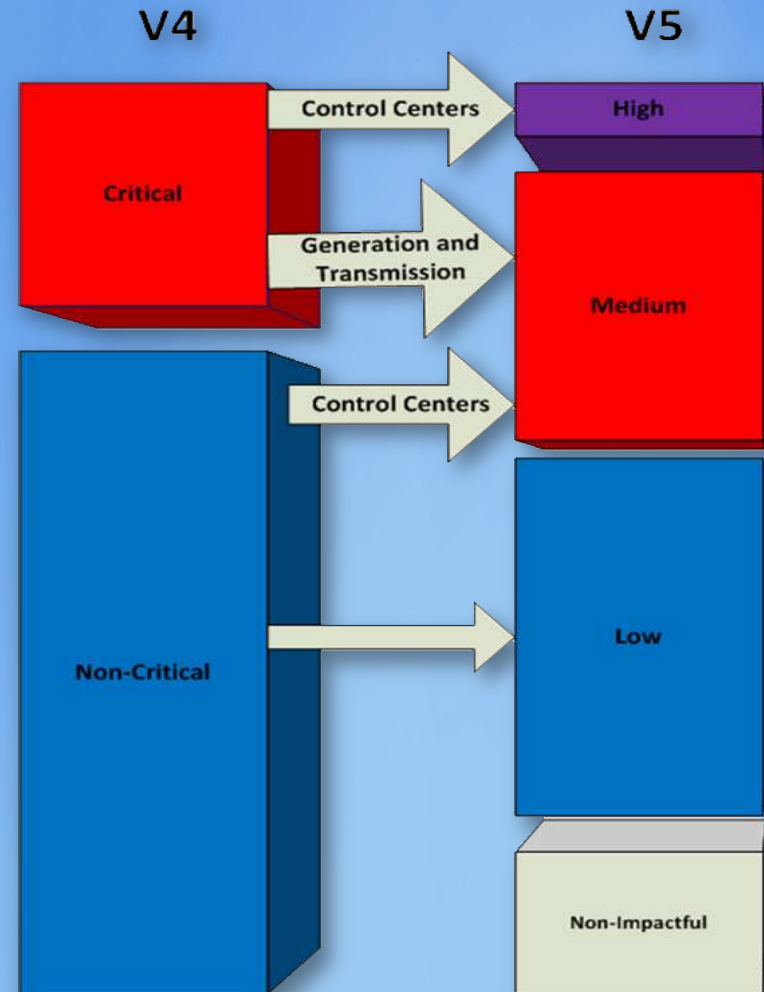
- Generation and Transmission
- Other Control Centers
- Similar to CIP-003 to 009 v4

- **All other BES Cyber Systems**

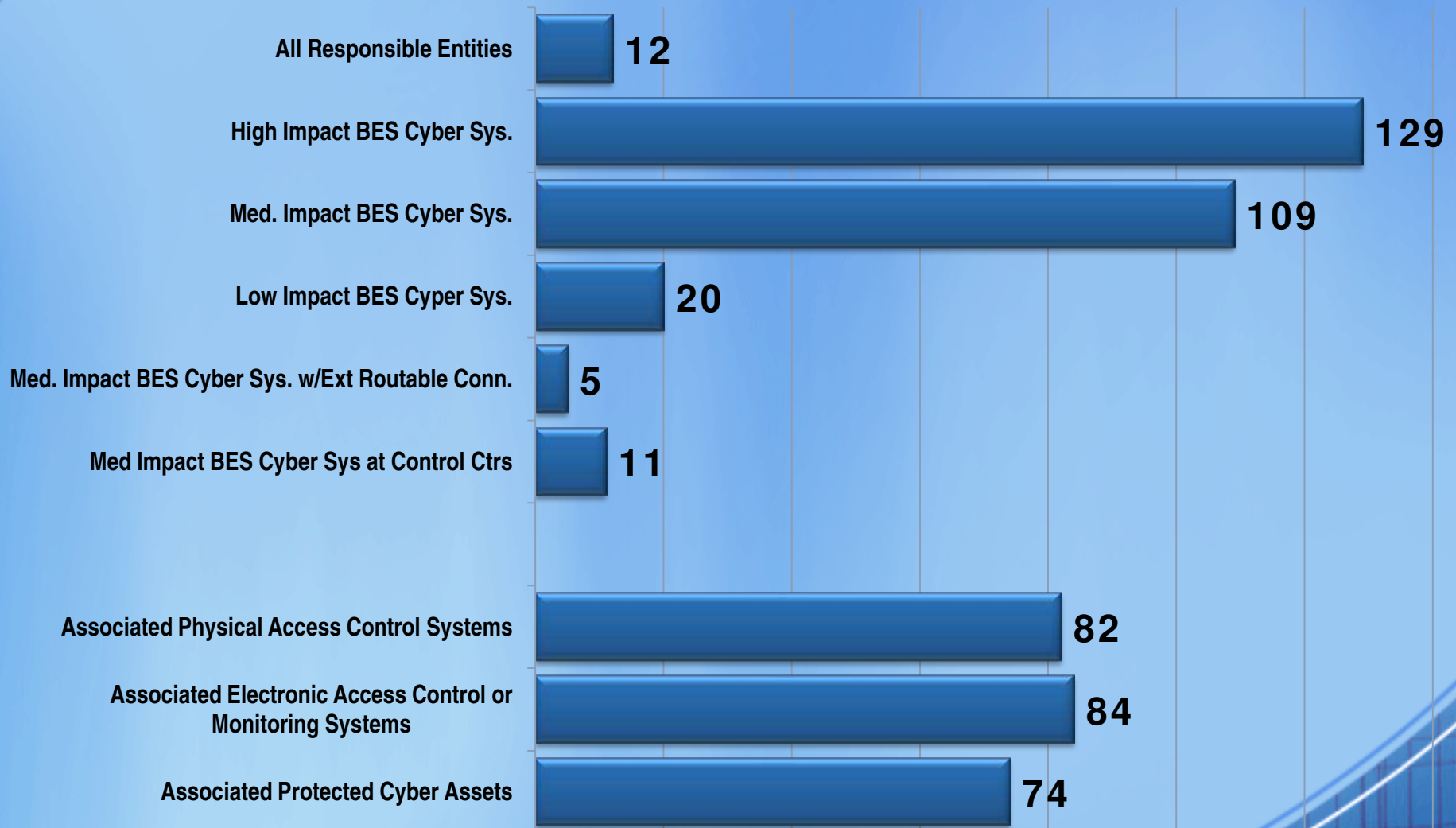
- Security Policy
- Security Awareness
- Incident Response
- Boundary Protection

- **Non-Impactful**

(Does not support a BES Reliability Operating Function OR can not impact on BES reliability within 15 minutes.)



# V5 Requirements (unofficial)







CIP Version 5

# IMPLEMENTATION PLAN

# Implementation Plan

- Single Implementation Plan
  - Incorporated Unplanned Changes from “Implementation Plan for Newly Identified Critical Cyber Assets and Newly Registered Entities” (IPNICCANRE)
- Single Effective Date
  - No staggered implementation. No Compliant/Auditably Compliant dates

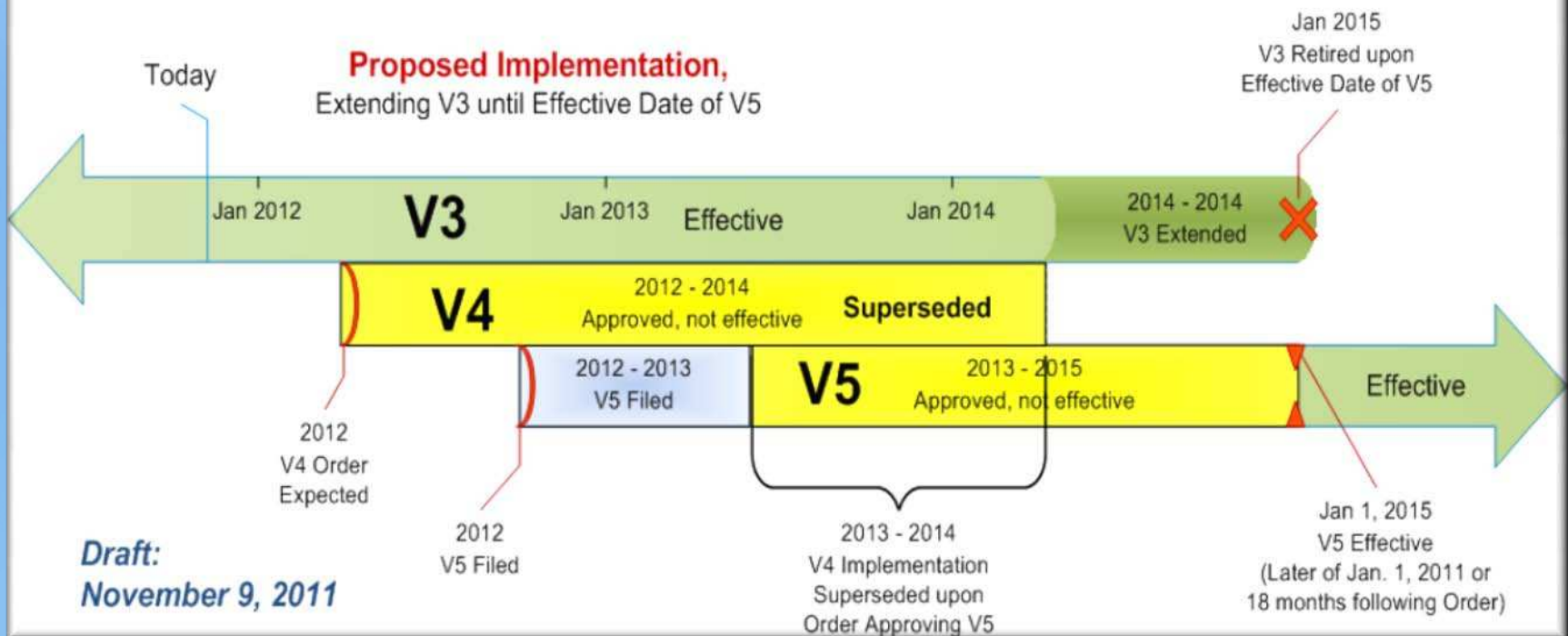
## **V3/ V4/ V5 Transition**

*Notwithstanding any order to the contrary, CIP-002-4 through CIP-009-4 do not become effective, and CIP-002-3 through CIP-009-3 remain in effect and are not retired until the effective date of the Version 5 CIP Cyber Security Standards under this implementation plan.*

# Transition Plan Timeline

## Implementation Plan for Version 5 of CIP Cyber Security Standards

(Graphic for illustrative and comparative purposes only; dates are estimates only and based on assumptions. There is no way to know or anticipate when FERC may take action on pending matters)





**QUESTIONS?**

## **Contact:**

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