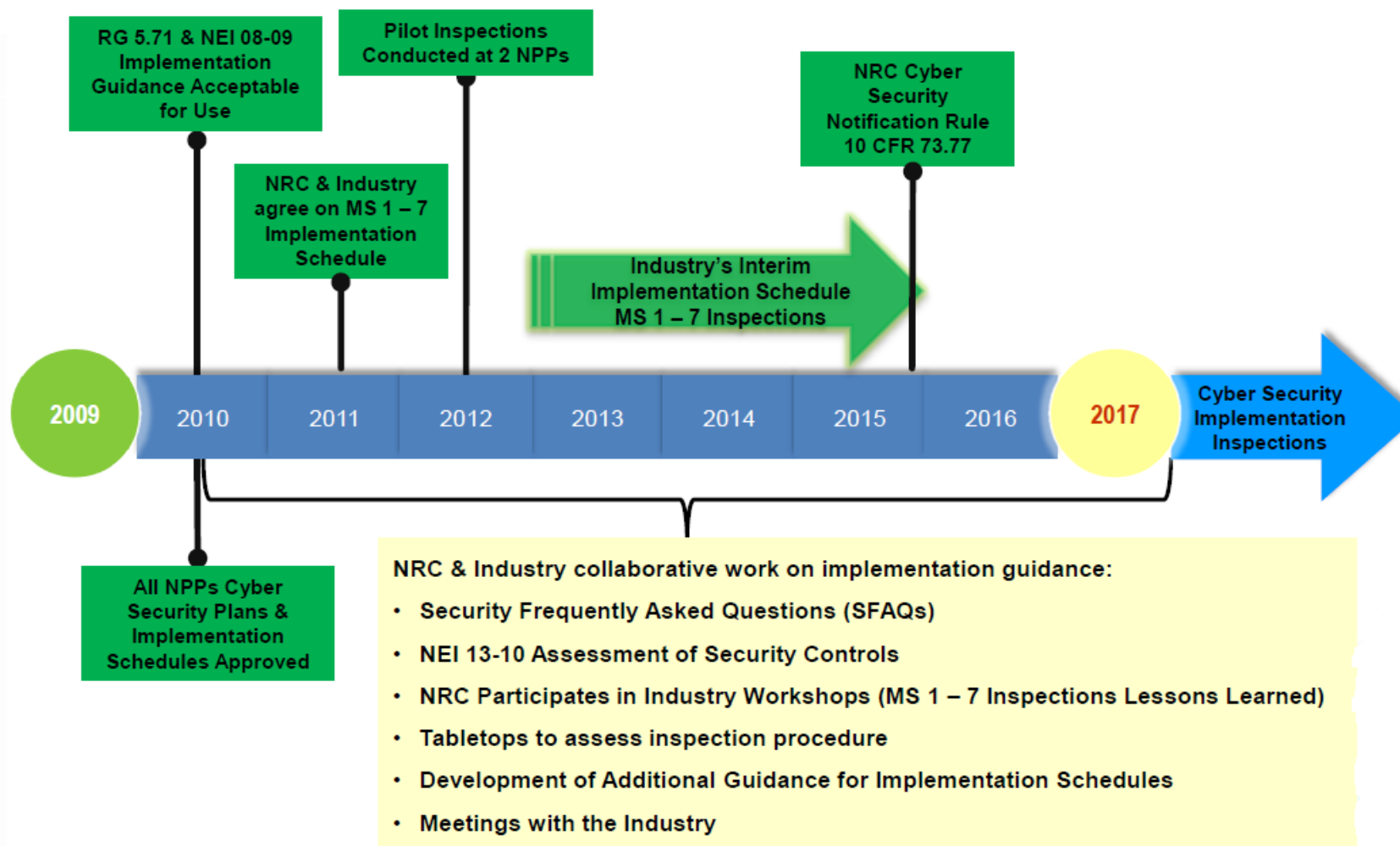


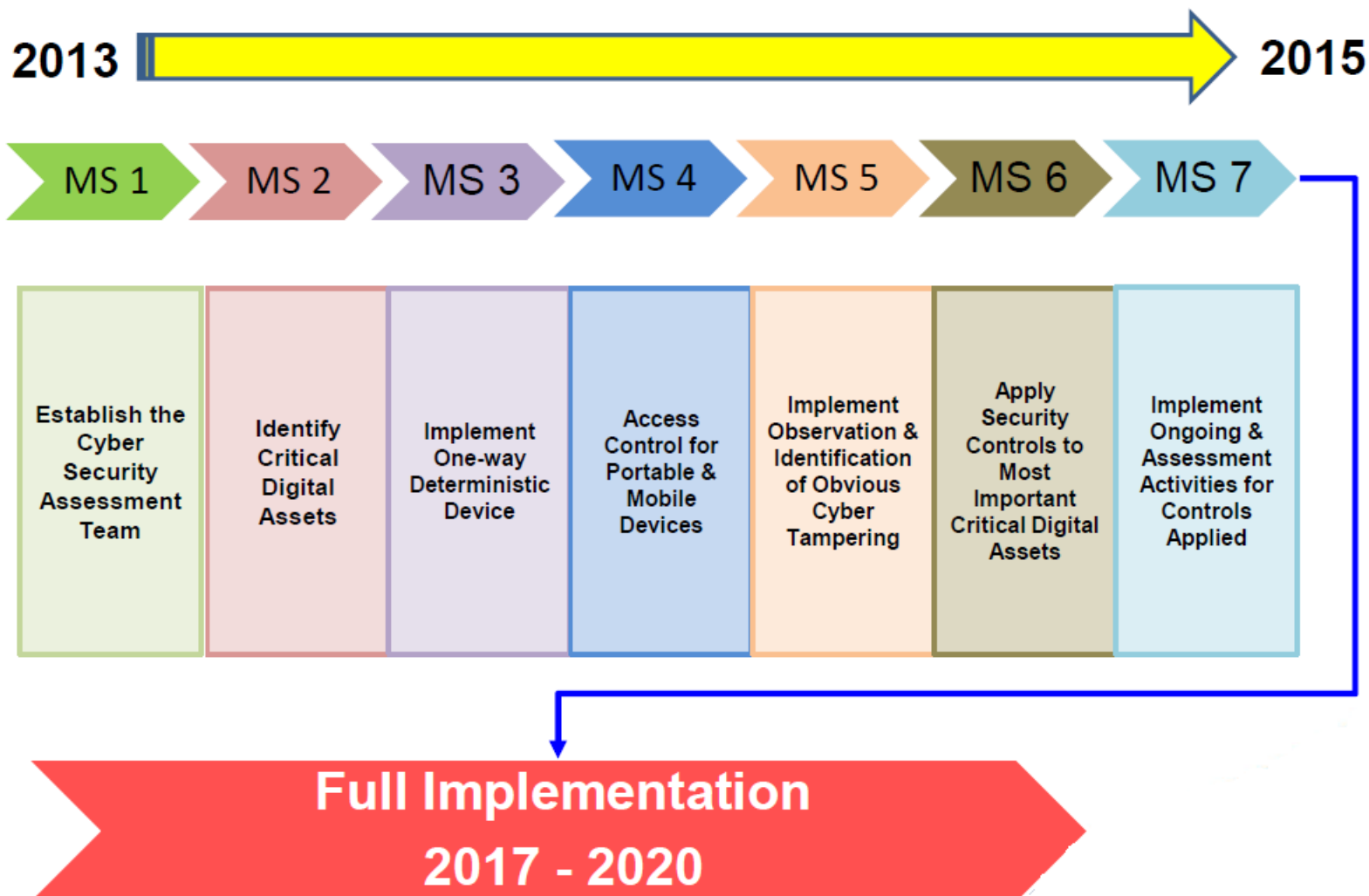
Full Implementation Cyber Security Inspections

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Cyber Security Inspections Timeline



Early Interim Inspections





Schedule of Full Implementation Inspections

YEAR	NUMBER OF INSPECTIONS
2017	2
2018	18
2019	24*
2020	13*

* Some inspections may shift from 2019 to 2020

Some Inspection Areas of Focus

- **CDA Assessments**
 - Evidence of knowledge of attack surfaces, attack pathways
 - Adequate protection
 - Use of alternate controls
 - Protection of devices that protect multiple CDAs
 - Clearly documenting the assessments and the analysis associated with the implementation of alternate controls
- **Management of Cyber Risks**
 - Ongoing threat analysis
 - Ongoing vulnerability analysis
 - Continuous monitoring of the cyber security posture of the plant

Some Inspection Areas of Focus

- **Enforcement of Defensive Architecture**
 - Verification of information flow enforcement
 - Verification of protection of pathways within and between security levels
 - Protection of boundary protection devices
 - Verification of mechanisms in place to detect and respond to attempts to circumvent the defensive architecture protections
 - Management of Portable Media and Mobile Devices
 - Procedures regarding Supply Chain

Some Inspection Areas of Focus

- **Defense in Depth**

- The ability to detect, respond to, and recover from a cyber attack
- The application of multiple layers of defensive security controls throughout the system with the intent of providing overlapping defenses

Current Status of Inspections

- **As of August 20 2018, thirteen inspections have been completed.**
- **Areas for improvement:**
 - Additional guidance on portable media & mobile device program
 - Guidance on periodicity for ongoing monitoring & assessment modifications.
 - Additional guidance on critical digital asset assessments (direct vs indirect).

Future Plans

- **In 2019 NSIR plans to conduct an overall assessment of the power reactor cyber security program to include:**
 - Effectiveness of the 10 CFR 73.54 rule
 - Effectiveness of the guidance and licensee implementation of the rule
 - Effectiveness of the full implementation inspection program
 - External factors and lessons learned over the course of program implementation
- **The assessment will result in a paper to the Commission.**

Questions

