| Submitted by: _ | _Ed Goff, Dul | ke Energy, | 919-215-885 | 66 edwin.go | off@duke | -energy.com_ | |
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| # | Organization | Commentor | Type | Page # | Line # | Section | Comment (Include rationale for comment) | Suggested change |
|---|---------------|-----------|------|--------|--------|---------|---|------------------|
| | 1 Duke Energy | Ed Goff | G | | | | health, safety, and security and therefore not all systems and assets should be the focus of the Framework. | |
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| Cybersecurity Framework | |

| Submitted by: | _Ed Goff, Duke Energ | y, 919-215-8856 edwin.go | ff@duke-en | ergy.com |
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| | | | Date: | _12-13-13 |

| | | | | The existing, broad business scope will reduce the focus on critical infrastructure and may result in organizations devoting limited resources to systems and assets that are not essential to critical infrastructure functions. As a result, the EO efforts to improve critical infrastructure cybersecurity will be diluted. A risk-based approach focused on the systems and assets essential to the critical infrastructure function enables organizations to identify and prioritize the protection, detection, response, and recovery activities that will help improve critical infrastructure cybersecurity. | |
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| Duke Energy | Ed Goff | G | | How the Framework Core, Profiles, and Implementation Tiers can be used together to reduce cyber risk to critical infrastructure should be made clear in Section 3.2 The Framework Core (Core) includes the cybersecurity practices that are common across all of the critical infrastructure sectors. This Core provides a baseline set of practices that can be leveraged by organizations to build or improve upon their existing cybersecurity program. The Framework Profile is intended to be "a tool to enable organizations to establish a roadmap for reducing cybersecurity risk." However, the Framework is unclear regarding how the profiles are built using the Core; the Implementation Tiers focus on the maturity of an organization's risk management process rather than implementation of the Core practices. A risk-based approach requires a cybersecurity risk assessment to prioritize these risks, which can be addressed through specific cybersecurity practices. Risk assessment and prioritization is addressed under the Identify function of the Core and the other Core functions address best practices that can be used to respond to cybersecurity risk. | A possible approach to clarifying the use of the Core, Profiles, and Implementation Tiers is: • Step 1: Integrate cybersecurity into an existing or new risk management process to address the applicable categories and subcategories of the Identify Function • Step 2: Based on the risk assessment and prioritization created by the implementation of a risk management process (Step 1), implement the applicable practices found in the categories and subcategories of the Core functions Protect, Detect, Respond, and Recover. During this implementation step, profiles can be created to establish a roadmap and track progress toward reducing cybersecurity risk. • Step 3 (ongoing): Once integrated, the risk management process can be periodically reviewed against the Implementation Tiers to mature the process. This is an ongoing process that will require assessing risk, reprioritizing, and making changes to the applicable cybersecurity practices found in the Core. If this approach is not used, there are specific edits to the existing steps below items 36-42. |

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| | | | | | | The subcategory language should be edited to reduce redundancy, focus on clear outcomes, and relate to the risk management process We greatly appreciate NIST's recent efforts toward improving the subcategory language in the Framework Core. Non-prescriptive language at the cross-sector level is appropriate because diverse users can select the appropriate controls and technologies to meet the cybersecurity outcomes described in the Core. However, in some areas of the core, the subcategory language is redundant and vague, which may lead to inconsistent interpretations within and across the 16 critical infrastructure sectors. Regarding redundancy and vagueness, many of these details will be addressed by individual entities providing comments using the NIST template. As a vagueness example, several subcategories use "managed," "protected," or "secured." It is unclear what these terms mean and how they differ from each other. Each subcategory should be managed under the risk management process, but determining whether an asset is protected or secured is uncertain as the organizations' risk environments vary and change over time. Therefore relating these terms in the subcategory language to the risk management process will add the needed clarity. | |
| 3 I | Duke Energy | Ed Goff | G | | Арр А | | Detailed recommendations are included below to address these specific concerns. |

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| | | | | | | Section 3.0 of the Framework should support sector-level coordination to develop implementation guidance Efforts to improve cybersecurity are not new to the Energy Sector. The Sector already uses a number of sector specific standards, guidelines, and practices, which can be aligned with the Framework. Examples include the North American Electric Reliability Critical Infrastructure Protection Standards (NERC CIP Standards), the Electricity Subsector Cybersecurity Capabilities and Maturity Model (ES–C2M2), and the Electricity Subsector Cybersecurity Risk Management Process (RMP). As a result, DOE, DHS, NERC, trade organizations, and asset owners and operators of the Energy Sector, have already devoted significant resources towards reducing cyber risk. To encourage critical infrastructure owner and operator use of the Framework, we recommend that NIST support the sector-level effort as described by Section 8 (b) of the Executive Order in the Framework's Section 3.0, How to Use the Framework. In Section 3.0, NIST should encourage the sectors to coordinate with their Sector-Specific Agencies, through their Sector Coordinating Councils to review the Cybersecurity Framework and develop implementation guidance to integrate existing and future efforts "to address sector-specific risks and operating environments." This will enable the Energy Sector to leverage and integrate cybersecurity improvements already underway into the Framework. Also, at the sector-level, cybersecurity risk management can be tailored to unique sector characteristics and leverage expertise from across the sector to increase efficiency and properly leverage asset | |
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| | | | | | | cybersecurity risk management can be tailored to unique sector characteristics and leverage expertise from across the | |
| 4 | Duke Energy | Ed Goff | G | | 3 | | |

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| | | | | NIST's support of sector-level coordination to develop implementation guidance will also improve the likelihood of the success of the Program DHS is tasked with establishing "to support the adoption of the Cybersecurity Framework by owners and operators of critical infrastructure." Sector-level coordination can also be used to sustain the Framework engagement and involvement of all 16 critical infrastructures, which can be leveraged in developing future Framework versions based on sector progress and environmental changes (e.g., threat, technology). | |
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| 5 Duke Energy | Ed Goff | G | | The body of the Framework should make it clear that the use or applicability of the subcategories may vary by organization Although the introductory text in Appendix A, the Core, mentions that the Core is not exhaustive and is extensible, this direction is not found in the body of the Framework. The use of subcategories will vary by organizations within and across the 16 critical infrastructure sectors depending on their particular critical infrastructure systems, assets, and risk. For example, the Energy Sector not only includes organizations of various size and ownership structures, but also organizations that are a part of other critical infrastructures. Establishing new protective cybersecurity technological or procedural controls can also undermine existing protections if not executed in a thoughtful, coordinated manner. Not all subcategories, therefore, may be applicable and some categories may need to be added during implementation to address a specific risk to a particular sector or organization. Therefore it should be made clear in the body of the Framework (including Sections 1.1, 2.0, and 3.0) that the use or applicability of the subcategories may vary by organization. This will help to encourage organizations to make well-reasoned, risk-based cybersecurity decisions. | |

| 6 Duke l | Energy | Ed Goff | G | | | | The definition of Framework adoption has not obtained general consensus In the December 4, 2013 "Update on the Development of the Cybersecurity Framework" (Update), NIST described that "general consensus" was developed based on discussion at the November Raleigh Workshop for a definition of Framework adoption. However, we did not observe such a consensus, but we did observe that the Workshop audience did not generally accept the term or clearly understand the definition of adoption. The definition provided by NIST in the Update was proposed by DHS for discussion specific to the Voluntary Critical Infrastructure Cybersecurity Program (Program), but has not yet received general consensus. We recommend that NIST simplify the adoption definition to: an organization adopts the framework when it voluntarily uses the framework as a part of its risk management process or strategy to protect critical infrastructure. | |
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| 7 Duke I | Energy | Ed Goff | Е | 2 | 116 | 1.1 | "best practices" are generally regarded as aspirational and above what is necessary for adequate protection | REMOVE "and best practices" |
| 8 Duke l | Energy | Ed Goff | T | 2 | 117 | 1.1 | It is unnecessary to require "senior executive level" | Change "senior executive level" to "management" |
| 9 Duke I | Energy | Ed Goff | Е | 2 | 119 | 1.1 | In it's current form, the Framework is not "strategic" | remove ", strategic" |
| 10 Duke I | Energy | Ed Goff | Е | 2 | 123 | 1.1 | In it's current form, the Framework is not "strategic" | remove ", strategic" |
| 11 Duke l | | Ed Goff | Т | 3 | 147 | 1.1 | "other business needs" is broader scope than directed in EO 13636 | change "other business needs" to "other critical infrastructure needs" |
| 12 Duke I | Energy | Ed Goff | Т | 3 | 153 | 1.1 | "business/mission objectives" is broader scope than directed in EO 13636 | change ""business/mission objectives" to "critical infrastructure objectives" |
| 13 Duke I | Energy | Ed Goff | T | 5 | 207 | 2.1 | missing word | add "example" between "and Informative" |
| 14 Duke I | Energy | Ed Goff | Т | 5 | 210 | | "commonly used" may be inaccurate for many organizations | change "commonly used" to "example" |
| 15 Duke I | Energy | Ed Goff | T | 5 | 211 | 2.1 | missing word | add "example" between "and Informative" |
| 16 Duke I | | Ed Goff | Т | 6 | 223 | 2.1 | "delivery of services" is too broad | change "delivery of services" to "critical infrastructure functions" or "critical infrastructure services" |
| 17 Duke I | Energy | Ed Goff | T | 6 | 232 | 2.1 | missing word | add "example" in front of "Informative" |
| 18 Duke I | Energy | Ed Goff | Т | 6 | 242 | 2.1 | "both IT and ICS" may confuse our directed scope | change "both IT and ICS" to "critical infrastructure functions" or "critical infrastructure services" |
| 19 Duke I | Energy | Ed Goff | Т | 6 | 251 | 2.1 | "with the business needs or the organization" is confusing way to end the sentence. | change "with the business needs or the organization" to supporting essential critical infrastructure functions" |
| 20 Duke l | Energy | Ed Goff | T | 7 | 259 | 2.1 | missing words | add to the end of the sentence "that may impact critical infrastructure functions" or "that may impact critical infrastructure services" |

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| | | | | 1 | | | | add to the end of the sentence "to critical infrastructure functions" or "to |
|----------|--------------|-----------|---|----------|---------|---------|--|--|
| 21 | Duke Energy | Ed Goff | Т | 7 | 264 | 2.1 | missing words | critical infrastructure services" |
| | <u> </u> | | | | | | | add to the end of the sentence "involving critical infrastructure |
| 22 | Duke Energy | Ed Goff | T | 7 | 267 | 2.1 | missing words | functions" or "involving critical infrastructure services" |
| | | | | | | | | change "restore the capabilities" to "restore critical infrastructure |
| 23 | Duke Energy | Ed Goff | Т | 7 | 274 | 2.1 | missing words | capabilities" |
| | | | | | | | | ahanga "raduce the impost to" to "raduce impost to critical infrastructure |
| 24 | Duke Energy | Ed Goff | т | 7 | 280 | 2.1 | missing words | change "reduce the impact to" to "reduce impact to critical infrastructure functions" or "reduce impact to critical infrastructure services" |
| <u> </u> | Duke Energy | Eu Goii | + | <u> </u> | 200 | 2.1 | "business/mission requirements" is broader scope than | Tanierons of reduce impact to critical infrastructure services |
| 25 | Duke Energy | Ed Goff | T | 7 | 290-291 | 2.2 | directed in EO 13636 | change ""business/mission requirements" to "critical infrastructure" |
| | - | | | | | | "best practices" are generally regarded as aspirational and | , |
| 26 | Duke Energy | Ed Goff | Е | 7 | 293 | 2.2 | above what is necessary for adequate protection | REMOVE "and best practices" |
| 27 | Duke Energy | Ed Goff | T | 8 | 310 | 2.3 | missing words | Insert "relative to critical infrastructure" between "priorities, available" |
| 28 | Duke Energy | Ed Goff | T | 8 | 316 | 2.3 | prescribing senior executive level is not necessary | Change "senior executive level" to "management" |
| 29 | Duke Energy | Ed Goff | Т | 9 | 328 | | "desired" is unclear and subjective | replace "desired" with "needed" |
| | | 1 | Ť | | | 2.1 | "business/mission requirements" is broader scope than | change "business/mission requirements" to "capabilities and functions |
| 30 | Duke Energy | Ed Goff | T | 9 | 337 | 2.4 | directed in EO 13636 | essential to critical infrastructure" |
| | | | | | | | "approved" by management implies an artifact that | |
| 31 | Duke Energy | Ed Goff | T | 10 | 348 | 2.4 | demonstrates formal approval | change "approved" to "supported" |
| 22 | D 1 - F | E1C.00 | Т | 10 | 252 | 2.4 | "management approved" by management implies an artifact | |
| 32 | Duke Energy | Ed Goff | 1 | 10 | 352 | 2.4 | that demonstrates formal approval | remove "management approved" change "in the larger ecosystem" to "sector and with other dependant |
| 33 | Duke Energy | Ed Goff | т | 10 | 356 | 2.4 | "in the larger ecosystem" is vague and unclear | critical infrastructures" |
| | B the Energy | 24 0011 | 1 | 10 | 350 | 2 | in the larger ecosystem is tagae and ancieur | add "that may impact critical infrastructure functions or services" to the |
| | | | | | | | | end of the sentence that ends with "address potential cybersecurity |
| 34 | Duke Energy | Ed Goff | T | 10 | 379 | 2.4 | missing words | events" |
| | | | | | | | | add to the end of the sentence "that support critical infrastructure |
| 35 | Duke Energy | Ed Goff | T | 10 | 382 | 2.4 | missing words | functions" or "that support critical infrastructure services" |
| 26 | Duke Energy | Ed Goff | т | 11 | 409 | 2.2 | the purpose of the program is for improved cybersecurity critical infrastructure | change the title of the section to "Establishing or Improving Critical Infrastructure Cybersecurity" |
| - | | | E | | | | | |
| 3/ | Duke Energy | Ed Goff | E | 11 | 410 | 3.2 | un-needed word the purpose of the program is for improved cybersecurity | remove "recursive" replace the last part of the sentence beginning with "create" with |
| 38 | Duke Energy | Ed Goff | т | 11 | 411 | 3.2 | critical infrastructure | protect critical infrastructure." |
| \vdash | Duke Energy | Ed Goff | т | 11 | 412 | | wrong word | replace "mission" with "critical infrastructure" |
| 39 | Duke Ellergy | Eu Goii | 1 | 11 | 412 | 3.2 | wiong word | replace "on the organization" with "on critical infrastructure functions." |
| 40 | Duke Energy | Ed Goff | Т | 12 | 419 | 3.2 | wrong words | or "on critical infrastructure services." |
| - | Duke Energy | Ed Goff | Т | 12 | 424 | | "desired" is unclear and subjective | replace "desired" with "required" |
| \vdash | Duke Energy | Ed Goff | Т | 12 | 434 | | missing word | insert "example" between "identifies" and "Informative" |
| 42 | Duke Elleigy | Eu Gon | 1 | 12 | 434 | 3.2 | IDENTIFY FUNCTION - Asset Management Category is | add "functions essential to critical infrastructure" between "objectives" |
| 43 | Duke Energy | Ed Goff | T | 13 | | App A | missing words | and "and" |
| | | 1 | Ť | 1.0 | | rr | 0 | add words that scope this to "critical" between "organization" and |
| | | 1 | | | | | Scope concern - ID-AM-3 is worded as if all | "communications" or append "for important for critical functions" to the |
| 44 | Duke Energy | Ed Goff | T | 13 | | ID-AM-3 | communications and data flows are mapped. | end of the sentence |
| | | | | | | | | add words that scope this to "critical" between "organization" and |
| ,. | D. I F | E1 C - CC | | | | ID AM 4 | Scope concern - ID-AM-4 is worded as if all systems are | "communications" or append "for important for critical functions" to the |
| - | Duke Energy | Ed Goff | 1 | 14 | | ID-AM-4 | mapped and catalogued | end of the sentence |
| 46 | Duke Energy | Ed Goff | T | 14 | | ID-AM-5 | missing words to clarify subcategory scope | change "business value" to "importance to critical infrastructure" |

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| 47 | Duke Energy | Ed Goff | T | 14 | | ID-IM-6 | missing words to clarify subcategory scope | change "business functions" to "critical infrastructure functions" |
|----|-------------|---------|---|----|---------|----------|---|--|
| 48 | Duke Energy | Ed Goff | Т | 14 | | Арр А | IDENTIFY FUNCTION - Business Environment Category is missing words | add "critical infrastructure functions" in front of "mission objectives" |
| 49 | Duke Energy | Ed Goff | Т | 14 | | ID-BE-3 | missing words to clarify subcategory scope | change "organizational mission" to "critical infrastructure mission" or add "critical infrastructure" in front of "organization" |
| 50 | Duke Energy | Ed Goff | T | 14 | | ID-BE-4 | this is an example of a correctly scoped subcategory | please duplicate this approach to other subcategories |
| 51 | Duke Energy | Ed Goff | Т | 15 | | ID-BE-5 | this is an example of a correctly scoped subcategory. Also, the emphasis on "resilience" is more what we expected in the CSF. | please duplicate this approach to other subcategories |
| 52 | Duke Energy | Ed Goff | Т | 15 | | ID-RA-1 | scope concern - ID-RA-1 is worded as if all vulnerabilities are documented | add words that scope this to "critical" or "important for critical functions" |
| 53 | Duke Energy | Ed Goff | Т | 16 | | ID-RM-3 | this is an example of a correctly scoped subcategory. | please duplicate this approach to other subcategories |
| | Duke Energy | Ed Goff | Т | 19 | | PR-DS-5 | subcategory is redundant PR-DS-1 & 2 already require data protection. Specifying "leak" protections seems to get in to the "how" versus the "what" | remove PR-DS-5 |
| 55 | Duke Energy | Ed Goff | Т | 19 | | PR-DS-9 | subcategory is redundant PR-DS-1 & 2 already require data protection. Also, with the differences in definitions of PII in the different states we operate in make the use of PII problematic. Clearly, protection of all instances of PII is paramount. | remove PR-DS-9 |
| П | | | | | | | scope concern - PR-PR-10 is worded as if all response | |
| 56 | Duke Energy | Ed Goff | T | 21 | | PR-PR-10 | plans are exercised. This doesn't scale. | add "supporting critical infrastructure functions" in after "plans" |
| 57 | Duke Energy | Ed Goff | Т | 21 | | PR-PT-3 | subcategory is redundant with the Access Control Category | remove PR-PT-3 change "data" to "events" |
| 58 | Duke Energy | Ed Goff | Т | 22 | | DE-AE-3 | scope issue - subcategory is worded as if all "cybersecurity data" is correlated. This doesn't scale. | also, this needs to be tied to critical infrastructure assets or functions. |
| 59 | Duke Energy | Ed Goff | T | 23 | | DE-DP-1 | redundant with ID-DV-2 | |
| 60 | Duke Energy | Ed Goff | Т | 23 | | DE-DP-3 | redundant with ID-DV-3 | |
| 61 | Duke Energy | Ed Goff | Т | 23 | | DE-DP-5 | redundant with PR-IP-7 | |
| | Duke Energy | Ed Goff | Т | 24 | | RS-AN-1 | scope issue - subcategory is worded as if all "notifications" are investigated. This doesn't scale. | add words that scope this to "critical" or "important for critical functions". Otherwise, "high risk" may work here. |
| 63 | Duke Energy | Ed Goff | Т | 36 | 497 | Арр С | Unclear how these areas became high priority, suggest that they are more potential areas for improvement that have been listed and described. | delete "high-priority," replace with "potential" |
| 64 | Duke Energy | Ed Goff | Т | 36 | 498 | Арр С | How these were "identified" is unclear, suggest edits to be consistent with these areas are a discussion starting point, more work needs to be done. | replace "currently identified" with "listed and discussed below." |
| 65 | Duke Energy | Ed Goff | Е | 36 | 498 | Арр С | | change "These initial" to "The following" |
| | | | | | | | A list and description is not really a roadmap, but a starting | |
| 66 | Duke Energy | Ed Goff | T | 36 | 498 | App C | point for discussion. | change "roadmap" to "discussion starting point" |
| 67 | Duke Energy | Ed Goff | Т | 36 | 509-516 | Арр С | This discussion is premature, the existing framework needs to be tested first, then a more informed process to develop areas for improvement should come out of the Sector-Specific Agencies through the Sector Coordinating Councils | delete "but these highlightedaddressing the challenges." |
| | Duke Energy | Ed Goff | | | 518-522 | Арр С | Prescriptive discussion, should be sector-specific and not in the NIST Framework. | delete "As a result,such as a biometric." |

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| 69 | Duke Energy | Ed Goff | Т | 38 | 576-584 | Арр С | This is not an exhaustive list, sector-specific efforts are underway that are not included here, which can be confusing to the reader, lines 568-574 are adequate to address the area. | delete lines 576-584 |
|----|-------------|---------|---|-------|---------|-------|--|---|
| 70 | Duke Energy | Ed Goff | G | 37 | 537 | Арр С | Automated Indicator Sharing – Automation is goodness; however, manual sharing (e.g. email, portal, real time conference calls) are useful while we build out automation. | add language to mature manual sharing as an interim improvement opportunity. |
| 71 | Duke Energy | Ed Goff | Т | 38-39 | 616-617 | Арр С | Appendix B's scope is too large, should be focused on critical infrastructure cybersecurity activities. | delete "including the Privacy Methodology in Appendix B." |
| 72 | Duke Energy | Ed Goff | Т | 39 | 617-626 | Арр С | A detailed description of the shortcomings of the FIPPs is not needed here, get to the gap. | delete "Although the FIPPsPrivacy Methodology is limited." add "However, the FIPPs do not provide best practices and metrics for implementing privacy protections." delete "lack of standardization, and supporting privacy metrics," |
| 73 | Duke Energy | Ed Goff | G | 42 | 686-741 | Арр Е | | Add specific references where definitions were sourced (like ES-C2M2 does) and/or REMOVE definitions for: PII, risk, & risk management. |

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| | | | | | | Appendix B should be revised to focus on protecting privacy and civil liberties implicated by critical infrastructure cybersecurity activities | |
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| | | | | | | Section 7(c) of the Executive Order specifies that "[t]he Cybersecurity Framework shall include methodologies to identify and mitigate impacts of the Cybersecurity Framework and associated information security measures or controls on business confidentiality, and to protect individual privacy and individual liberties." Protecting the customer privacy and civil liberties is important. However, we are concerned that, instead of focusing on means to limit the privacy impacts of the Framework, Appendix B appears to recommend independent privacy protections unrelated to the protection of critical infrastructure. | |
| | | | | | | Similar to risk management, the scope of privacy and civil liberty protections are beyond that of cybersecurity. The purpose of the framework is to "help owners and operators of critical infrastructure identify, assess, and manage cyber risk." The methodology in Appendix B should be revised to tailor the methodology to the purpose of the Framework: to improve critical infrastructure cybersecurity. | |
| | | | | | | Additionally, it is critical that the privacy methodology is clear and actionable. The existing Appendix B does not readily allow companies to discern how to use the methodology or determine whether current practices already incorporate its elements. We observe that Harriet Pearson, representing a broad variety of industries, provided NIST with an alternative to Appendix B that presents concepts and principles that are more actionable and process oriented than the existing Appendix B. NIST should view this alternative to Appendix B as a strong reference for improving the methodology to protect privacy and civil liberties implicated by critical infrastructure | |
| 74 | Duke Energy | Ed Goff | G | | Арр В | cybersecurity activities. | |

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| Comments template for Preliminary | Submitted by:Ed Goff, Duke Energy, 919-215-8856 edwin.goff@duke-energy.com | | |
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