



WECC

WECC Events Analysis Process

WECC Event Analysis
Department

Document Objectives

Start an ongoing conversation with our stakeholders about the Event Analysis process

- 1.Improve understanding of the process
- 2.Share how WECC intends to improve the process
- 3.Gather input from participants



Event Analysis Purpose

- Analyze events to determine what happened, how, and why
- Track this information over time
- Learn from individual events as well as trends over time

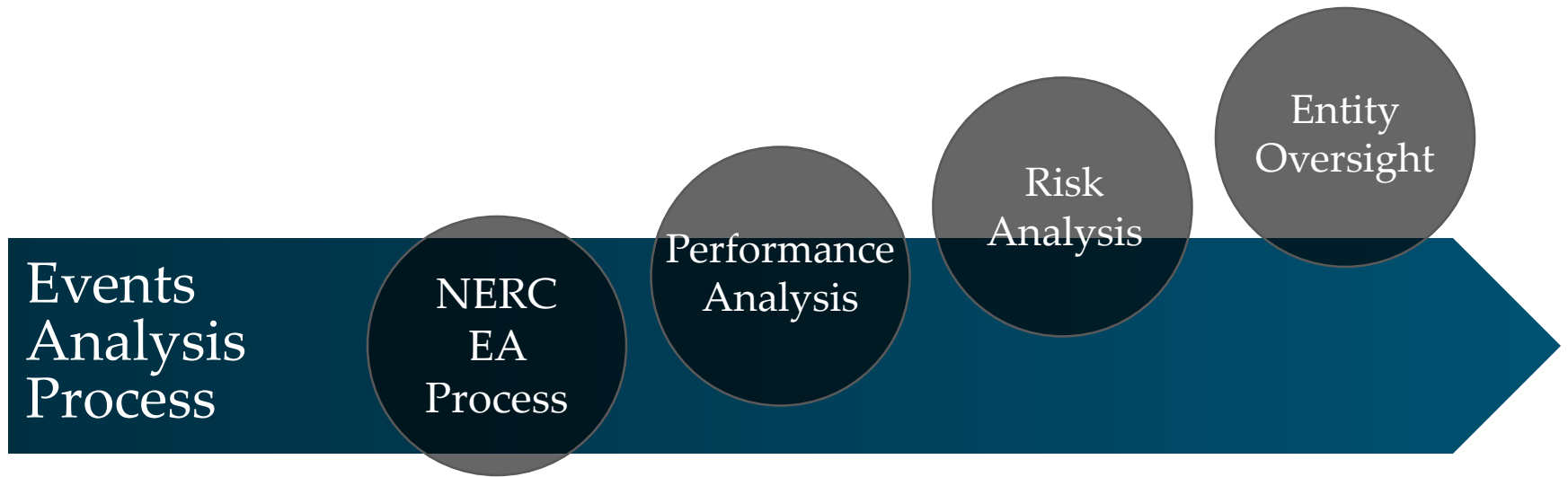


Justification & Governing Documents

- Delegated responsibility for
 - Events Analysis
 - Situation Awareness
 - Performance Analysis
- NERC EA Process
- Risk-based entity oversight
- Responsible regulatory behavior



Relationship to WECC Work



EA Process Overview

Notification & Information Gathering

- Situation Awareness
- Entity outreach

Reporting (Brief Reports)

- Event Analysis
- Entity Outreach
- Stakeholder Participation

Evaluation & Analysis

- Event Analysis
- Entity Outreach
- Risk Analysis
- Entity Oversight
- Cause Coding

Outreach & Sharing

- Lessons Learned
- Stakeholder Committees



EA Process Overview

Notification & Information Gathering

- Situation Awareness
- Entity outreach

Reporting (Brief Reports)

- Event Analysis
- Entity Outreach
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Evaluation & Analysis

- Event Analysis & Cause Coding
- Entity Outreach
- Risk Analysis & Entity Oversight

Outreach & Sharing

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Sources of Information

Notification &
Information
Gathering

- Mandatory reporting
 - OE-417
 - EOP-004
- NERC Daily Report
- Direct entity communication
- System monitoring tools (e.g., SAFNR, FNet)



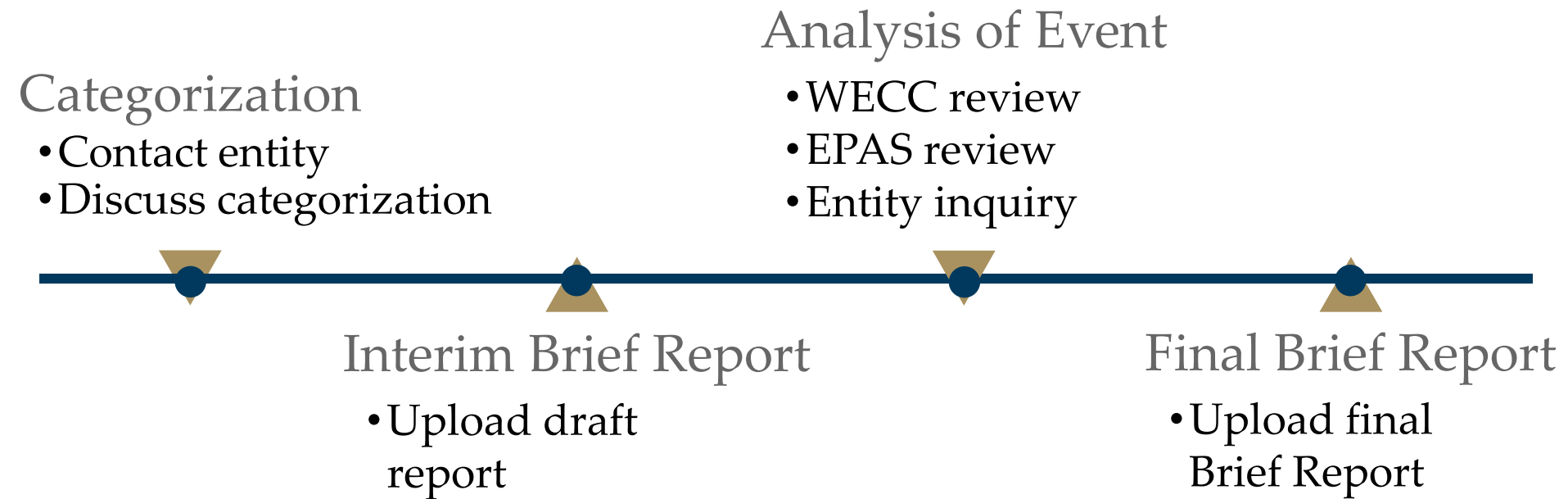
Event Analysis Objectives

- Provide 3rd party review and analysis of events
- Analyze causes and evaluate trends
- Identify emerging risks
- Feed Lessons Learned Program
- Identify improvements that may prevent recurrence

Reporting
(Brief Reports)



Event Analysis Process Overview



Categorization

- WECC contacts the entity when it receives information about a possible qualifying event
 - Remind about reporting timeline
 - Inquire about event details
 - Discuss initial categorization

Reporting
(Brief Reports)

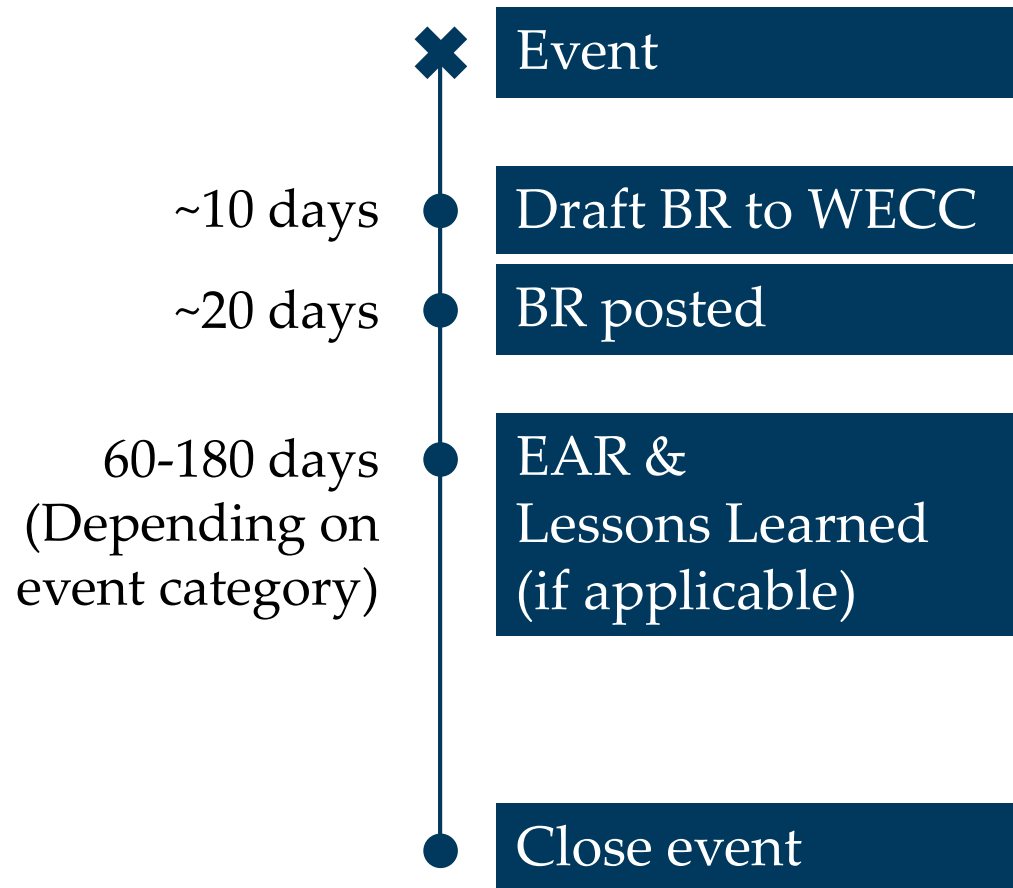


Categorization

- Event category determines next step
 - Category 0
 - Logged and closed
 - Category 1 & 2
 - Brief Report (BR)
 - Category 3–5
 - Event Analysis Report (EAR)

*EAR can be requested for any event category

Timeline for Category 1-5 Events



Interim Brief Report

- Within 10 days of the event
 - Entity submits draft Brief Report to WECC staff
 - WECC reviews and discusses questions with entity
 - Determine if Event Analysis Report and Lessons Learned should be created (required for category 3–5 events)

Reporting
(Brief Reports)



Event Review

Reporting
(Brief Reports)

- WECC Staff
 - Internal review by experts
 - Weekly meeting to discuss and track events
 - Communication with entities to clarify details
- WECC Committees
 - Monthly review by Event Performance Analysis Subcommittee



Final Brief Report

- Within 20 days of the event
 - WECC staff completes analysis
 - Posts Brief Report to NERC TEAMS database
- WECC risk and audit teams access report
 - Risk Assessment Mitigation uses information for trending risk and oversight planning
 - Audit team conducts a compliance screening
 - If necessary, conduct compliance assessment with entity



Analysis

- Cause Coding
- Trend Analysis
 - Performance
 - Risk
- Best Practices and Lessons Learned

Evaluation &
Analysis



Cause Coding Purpose

Evaluation & Analysis

- Determine the primary cause(s) of specific events
- Apply broad expertise
- Track and trend information across events
 - Identify potential issues on Interconnection scale
- Provide useful information to entities
 - Lessons Learned
 - Recommendations



- Use NERC-approved Cause Code Assignment Process (CCAP)
- WECC and NERC staff
 - Increase entity participation



Cause Coding Process

- Expert review
 - 3+ SMEs review the event individually
 - Anonymously submit cause codes prior to discussion
- Cause Coding session
 - Walk through event
 - Discuss proposed cause codes
- CCAP Report
 - Provide draft report to entity
 - Finalize report



Information Sharing

- Sharing CCAP with Entity Oversight
 - Is there a barrier to sharing CCAP reports with Oversight?
 - Does WECC EA share CCAP reports with Entity Oversight?

Evaluation &
Analysis



Trend Analysis

Evaluation & Analysis

- Performance metrics
 - NERC and Regions
 - Across entities and time
- Risk assessments
 - Identify potential vulnerabilities, e.g., common equipment failure
- Stakeholder SME analysis (via committees)
 - E.g., EPAS looks for potential fixes for broad issues
 - E.g., HPWG looks for human performance elements



Lessons Learned

Outreach & Sharing

- Entities are encouraged to submit if they believe an event has an “industry-worthy” lesson
- Collaborative effort
 - WECC, NERC, committees, submitting entity
- Posted publicly
 - Made anonymous
 - Aggregated where possible



Industry Outreach

Outreach & Sharing

- Presentations at Committee Meetings
 - WECC OC, EPAS, DEMSWG, etc.
 - NERC EAS and OC
- Webinars
 - Western Interconnection
 - ERO Industry
- Conversation with stakeholders



The Path Forward

- Three-pronged strategy for continuous improvement
 1. Internal Processes
 2. Tools
 3. Relationships



Improving Internal Processes

What we will do...

- Increase coordination of information requests
- Increase efficiency and tighten timelines
- Increase internal coordination of analysis

What you will see...

- Less duplication of requests
- More timely information requests and sharing
- More unified message and information from WECC



Improving Tools

What we will do...

- Enhance reporting tools
- Coordinate process through tool
- Enhance analytics

What you will see...

- More reporting efficiency to stakeholder groups
- More consistency in awareness across WECC staff
- Entity performance information will include more event analysis, e.g., trends



Improving Relationships

What we will do...

- Increase efficiency of information gathering communication
- Increase transparency of process
- Increase entity involvement in analysis

What you will see...

- Fewer duplicate touchpoints for events
- More communication about process and entity input points
- More opportunities to participate in entire process

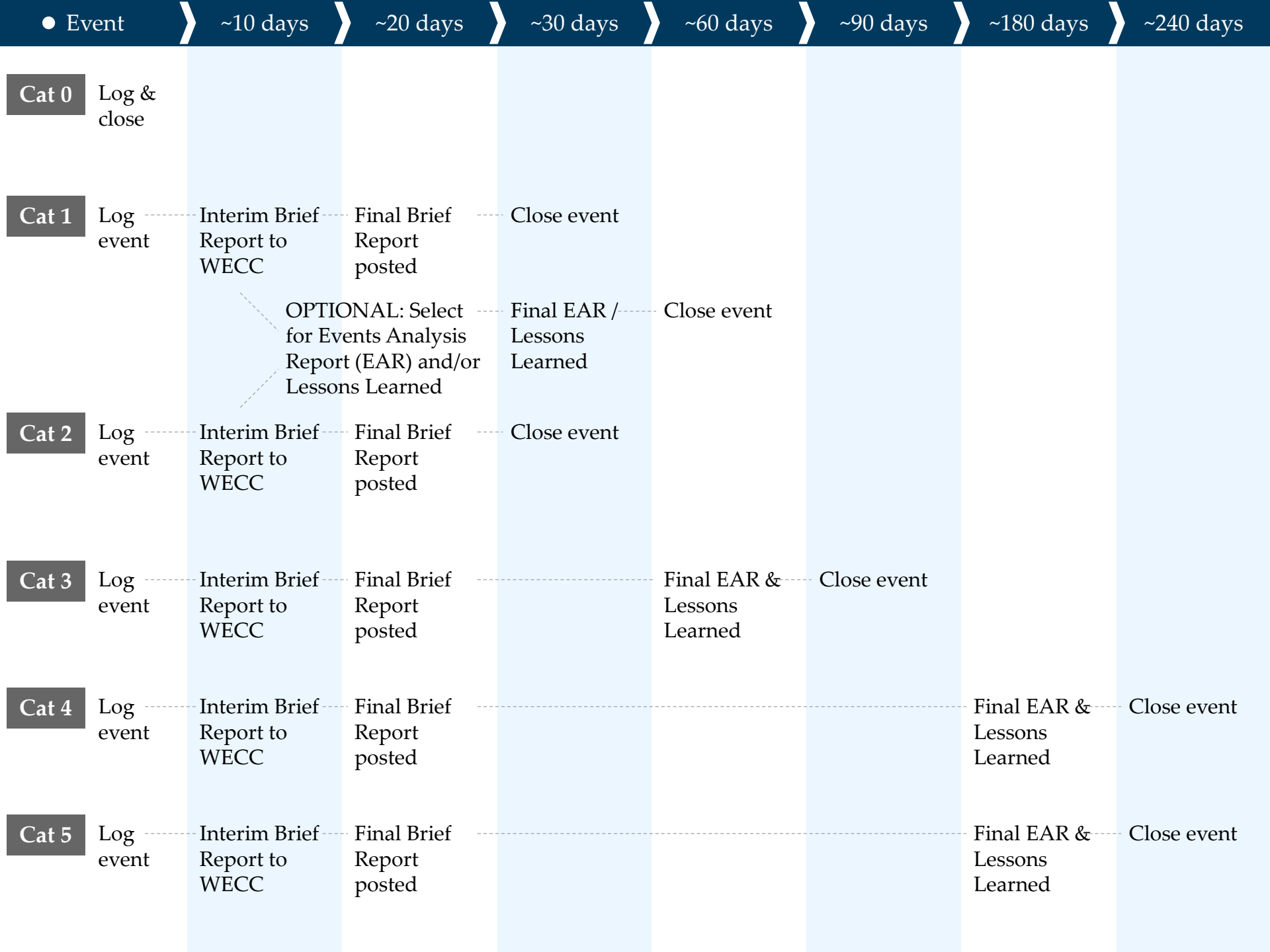


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WECC

Electric Reliability and Security for the West

Contact:

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