



**Reliability & Security
Workshop**

WECC

**March 17–18, 2026
San Diego, California**

Risk Management Process and Risk Register

Tim Reynolds

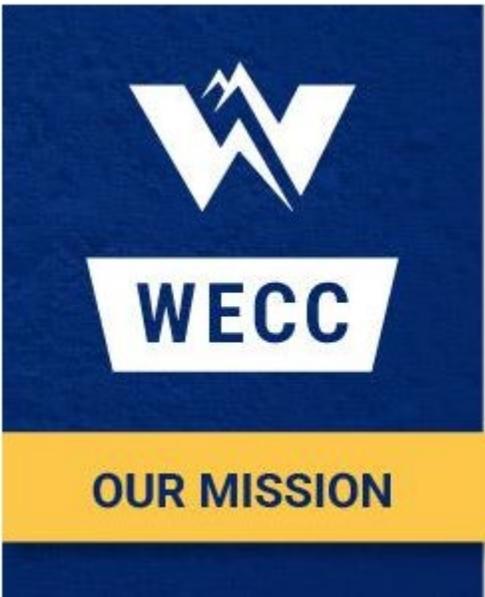
Director, Reliability Risk Management, WECC

**Electric Reliability
& Security for the West**

March 18, 2026



**A reliable & secure
Bulk Power System in
the Western Interconnection**



**To effectively & efficiently mitigate
risks to the reliability & security
of the Western Interconnection's
Bulk Power System**



Risk Management Program

Risk Analysis

- Intake (initiation)
- Categorization of risk
- Risk Register (tool)

Treatment

- Tolerability (appetite)
- Prioritizing actions and plans
- Tracking progress (Tracker Tool)

Monitoring

- Reporting
- Dashboards

Stakeholder

- Entity engagement (e.g., town halls)
- Industry involvement and progress



ISO 31000 Risk Management Framework

Risk Process Overview





WECC Risk Management Process



Five Steps

1. **Risk Identification:** Identify existing and emerging risks to WI BPS reliability. Use diverse methods, using data-driven perspectives and partner input.
2. **Risk Analysis:** Understand risk attributes (causes, controls, time factors). Rate impact based on likelihood and consequence using the Risk Matrix.
3. **Risk Evaluation:** Support decisions by determining risk tolerability and ranking. Guides decisions; Accept, Reduce, Transfer, or Avoid.
4. **Risk Treatment:** Implement actions to address risks and achieve tolerable levels. Use an ongoing cycle of identifying, evaluating, and planning mitigation.
5. **Recording and Reporting:** Document and share risk information for planning and decision-making. Ensures accurate records and appropriate communication of each risk's status.



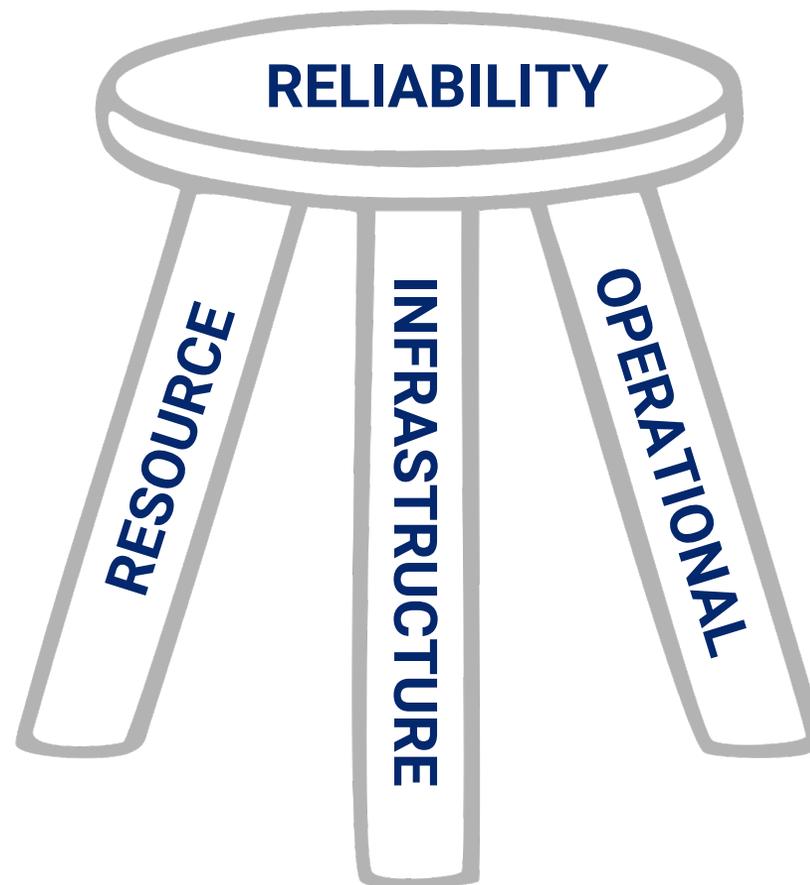
Recent Enhancements

- Updates to the Risk Management Process
 - Re-analyzing existing risks in the Risk Register
 - Expected completion is April 2026
- Interactive website
- Upcoming town hall and outreach



Reliability Adequacy – 3 Parts

- **Resource Adequacy**
(Generation Assets)
- **Infrastructure Adequacy**
(Transmission Assets)
- **Operational Adequacy**
(Operations)





Risk Register

- [WECC Risk Register | Western Electricity Coordinating Council](#)

WECC		WESTERN INTERCONNECTION RISK REGISTER	
Reliability Risk Inventory			
ID NO.	CATEGORY	RISK TITLE	RISK STATEMENT (Double click to see more info)
CRM-001	GT: Changing Resource Mix	Generation Resource Mix Impacts to Future Transmission Congestion	Condition: Long-term regional transmission planning studies should be done to produce multiple reasonably likely scenarios and allow time to
CYB-001	Cybersecurity	Artificial Intelligence	Condition: Publicly available information about entities, including company organization/employees, products/services used, physical
CYB-002	Cybersecurity	Compromised Supply Chain	Condition: Compromised vendors can be a source of cyber-attacks on critical infrastructure.
CYB-003	Cybersecurity	Cybersecurity in Transmission Planning	Condition: Traditional transmission planning processes do not include cyber-informed transmission planning approaches that incorporate
CYB-004	Cybersecurity	Insider Threat	Condition: A trusted insider uses their authorized access to deliberately or accidentally harm assets.
CYB-005	Cybersecurity	Internet of Things (IoT)	Condition: Consumer Internet of Things (IoT) devices connected to the grid's distribution network.
CYB-006	Cybersecurity	Malware	Condition: Infection from any source on any entity's Corporate system of malicious program or code.
CYB-007	Cybersecurity	Perimeter Breach	Condition: Unauthorized actions on the digital assets within an organizational network.
CYB-008	Cybersecurity	Perimeterless Operational Technology	Condition: Systems and software used to peripherally interact or transmit into cyber assets that are not within an enterprise-owned network.
CYB-009	Cybersecurity	Phishing and Social Engineering	Condition: Threat actor exploits trusted single insider access to harm critical cyber assets.
CYB-010	Cybersecurity	Physical Attacks on Cyber Assets	Condition: Insufficient physical controls to protect against unauthorized physical access to cyber assets.
CYB-011	Cybersecurity	Public Cloud / Cloud Computing	Condition: Cloud computing is a model for enabling universal, convenient, and on-demand network access to a shared pool of
CYB-012	Cybersecurity	Third Party Operations	Condition: Unvetted and unmonitored 3rd-parties operation of cyber assets.
CYB-013	Cybersecurity	Unauthorized Software & Hardware	Condition: Unauthorized software and hardware within an organizational network. This includes authorized software and hardware that is end-of-life
CYB-014	Cybersecurity	Zero-Day Exploit	Condition: A computer-software vulnerability previously unknown to those who interested in its mitigation.



Risk Register

- [WECC Risk Register | Western Electricity Coordinating Council](#)

WECC Risk Management Program Analysis								
CONSEQUENCE / IMPACT LEVEL	MANDATORY CONTROLS	EMERGING TREND	EVENT HISTORY	LIKELIHOOD LEVEL	EXPECTED RISK TIMEFRAME	NATURE OF RISK	WEIGHTING SCORE	WEIGHTING VALUE
Minor	In Place	Increasing	Historical and generally published	Likely	Long Term (5+ yrs.)	Man-Made	13.0	Medium
Moderate	Some	Increasing	Historical and generally published	Almost Certain	Near Term (1-5 yrs.)	Man-Made	21.0	High
Moderate	Some	Increasing	Historical and generally published	Likely	Exists today	Man-Made	17.0	High
Insignificant	In Place	Neutral	No historical or minimally publicized	Unlikely	Exists today	Man-Made	1.0	Low
Moderate	Some	Neutral	Historical and highly publicized	Possible	Exists today	Man-Made	16.0	High
Minor	None	Increasing	Historical and generally published	Likely	Exists today	Man-Made	13.0	Medium
Moderate	In Place	Increasing	Historical and highly publicized	Likely	Exists today	Man-Made	17.0	High
Major	In Place	Neutral	Historical and highly publicized	Possible	Exists today	Man-Made	18.0	High
Moderate	Some	Increasing	No historical or minimally publicized	Possible	Exists today	Man-Made	16.0	High
Minor	Some	Increasing	Historical and highly publicized	Likely	Exists today	Man-Made	13.0	Medium
Minor	In Place	Neutral	Historical and generally published	Likely	Exists today	Man-Made	13.0	Medium
Moderate	Some	Increasing	Historical and generally published	Possible	Near Term (1-5 yrs.)	Man-Made	16.0	High
Minor	None	Increasing	No historical or minimally publicized	Likely	Exists today	Man-Made	13.0	Medium
Minor	In Place	Neutral	Historical and highly publicized	Unlikely	Exists today	Man-Made	1.0	Low
Moderate	Some	Increasing	Historical and highly publicized	Likely	Exists today	Man-Made	17.0	High



Upcoming Activities

- March–May:
 - Enhance WECC’s publicly available risk information; e.g., wecc.org
 - Share information on WECC’s Risk Management Program
 - Continue work on existing high-priority risks, e.g., IBRs, large load, etc.
 - Strategy development and activities to address risks based on strategies
- May
 - Finish new risk ranking through WECC’s established risk analysis process
- June
 - Town hall to discuss risk priorities in advance of the September board meeting
- September
 - Present new risk priorities to board



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**Take our
survey!**





WICF Meeting

Thursday, March 19

Breakfast 7:30–8:30 a.m. PDT

Meeting 8:30 a.m.–12:15 p.m. PDT

Lunch 12:15 –1:45 p.m. PDT

Meeting 1:45–3:25 p.m. PDT



ENGAGE WITH WECC





WECC



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