



Emergency Management
NC DEPARTMENT OF PUBLIC SAFETY

NORTH CAROLINA HAZARDOUS MATERIALS



North Carolina Emergency Management





Safety Minute – Lithium-ion Batteries

- Fires increasing trend, particularly micro mobility devices: bikes, scooters
- Remove battery from device when not in use, do not charge overnight/unattended
- Store and charge away from flammables
- Store at manufacturer recommended temperatures (typically 35-90 deg F) and a dry environment
- Damaged batteries – do not use or charge, properly dispose at waste disposal/recycling facility





Lithium Ion – Preparing

Prior to flooding - Electric Vehicles

- Disconnect vehicle from charging device
- Cover charging station outlet
- Move vehicle 50 ft from flammable materials.

Post flooding

- Batteries exposed or damaged by water – do not charge or drive
 - Tow and have inspected by certified hybrid/EV dealer or mechanic
 - Call 9-1-1 odor, color or shape changes



Yes, electric vehicles are prone to igniting in flood
<https://www.wtsp.com/>



Lithium-ion Batteries Resources

<https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Lithium-Ion-Battery-Safety>



nyc.gov/fdny/batteries



PHMSA Lithium Battery
Safety – Transportation
<https://www.phmsa.dot.gov/lithiumbatteries>





Requested updates for Tier2 Submit “State Fields”

Annual opportunity to improve North Carolina EPCRA 311/312 reporting requirements





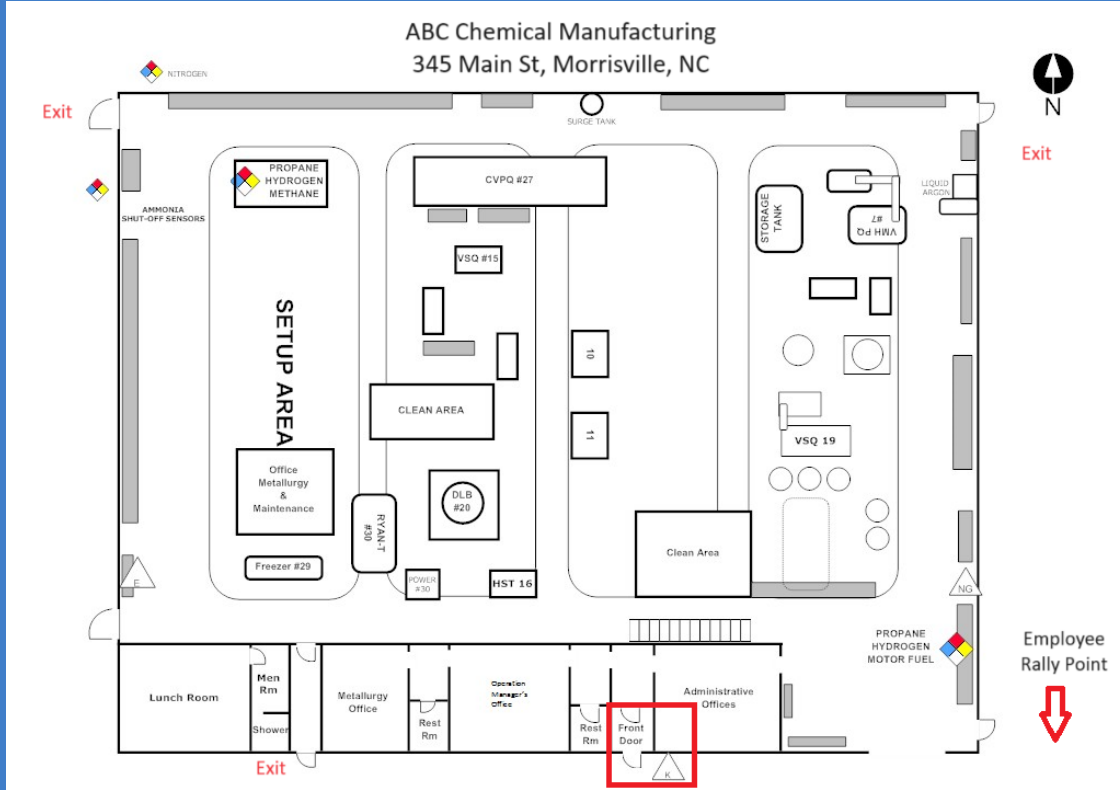
North Carolina Enhancements:

- **Company Name:** In addition to facility name – Assists to filter and sort facilities
- **Identify First Response Agency** – Link to Office of State Fire Marshal
- **Identify Hazardous Materials Response Team**
- **Site Plans** (Floor plans, not aerial)
- Required for EPCRA Section 302 facilities, optional for 312 (local input)* see next slide for instructions, EPCRA 303(c)
- **Transportation component:** Highway, Rail, Ship/Barge, Other (pipeline, etc.)
 - (Yes/ No or Type button)
- **Shipment Specifics:** Frequency, state of matter, container, time on-site (for more than 24-hours)
 - (Yes/ No or Type button)
- **Regulatory Associated Information:** CFATS, RCRA*, RMP, TRI, OSHA
 - (Yes/ No or Type button)
 - Facility is already aware of their program requirements*



North Carolina Enhancements:

- ***RCRA Facility** drop down menu:
 - o Large Quantity Generator
 - o Small Quantity Generator
 - o Very Small Quantity Generator
- **Deregistration** - The facility is under the threshold planning quantity for all reportable chemicals and is no longer subject to EPCRA reporting
 - (Yes / No)
Reminder: Right to Know for EPCRA 311 and OSHA reporting thresholds are 55 gallons/500 pounds. Continue to submit a 311 if applicable.
- **Facility field that identifies their category:** Private Industry, Government, Tribal, Agricultural, Educational
 - (Yes/ No OR Type button)



Site Plan Components

1. North will always be on top
2. Name and address
3. Floor Plan, not aerial
4. Access/ Egress
5. HAZMAT locations/Areas
6. Employee Rally Points



Tier II Submittals – Best Practice

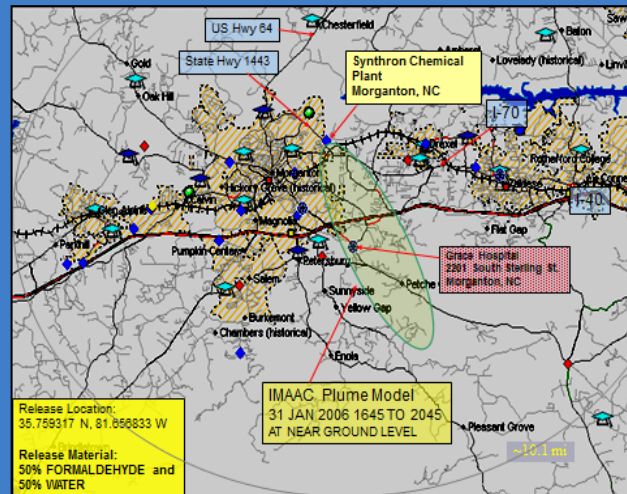
- Facility 24-Hour Emergency Contact – Answered by a PERSON not automated
- Having more than 1 contact listed (same person for owner, emergency contact Tier II filer, etc. not acceptable); indicating primary, secondary... 24-Hour
- The chemical name or the common name as indicated on the SDS
 - Can responders cross reference the chemical inventory to the SDS provided?
- A brief description of the manner of storage of the chemical
- The location of the chemical at the facility
 - An indication of whether the owner of the facility elects to withhold location information from disclosure to the public





Tier II Submittals – Best Practice Continued

- Provide chemical CAS numbers and concentrations, complete the physical and health hazards provided in SDS Section 2 Hazard identification and Section 15 Regulatory information
- Enter the max in largest container and container types
- Ensure all products have SDS (not MSDS)





Utilizing E-Plan for Responses Tier II Submittals

Chemical Inventory	EPCRA 304 Report	Additional Information
Facility Documents		
No uploaded document		
Emergency Plan		
No uploaded document		
Hazard Analysis		
No uploaded document		





Tier II – Additional Information Best Practice

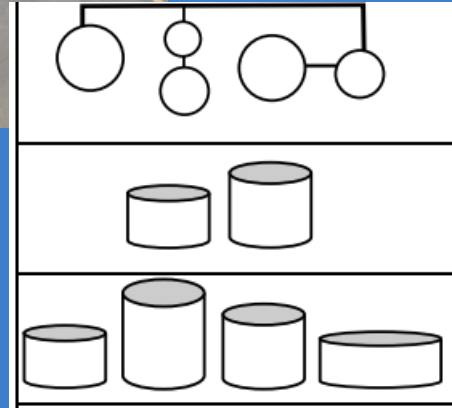
- The following items are recommended to upload in E-Plan under Additional Information.
- Full Emergency Action/Response Plan
- Quick View Responder Plan (2-5 pages with critical information for responders)
- Maps with chemical locations, water supply, responder safe zone, facility staff muster points
- Chemical mitigation descriptions
- List of facility emergency response equipment and locations
- Specific medical procedures, necessary medication, medicine location, or treatment protocols for chemical exposure
- Process Diagrams
- Hazard Analysis
- SDS





Responder Facility Knowledge

- Does your local response team know a facility's:
 - **Hazards:** health, physical, ripple effects
 - the facility's **processes**,
 - **protective** features and **systems**,
 - proper **actions to take** (or not to take) during emergencies





Questions



- Environmental Topics ▾
- Laws & Regulations ▾
- Report a Violation ▾
- About EPA ▾

Frequent Questions

Search Frequent Questions

Filter By:

Topic	Count
<input checked="" type="checkbox"/> Emergency Planning and Community Right-to-Know	303
<input checked="" type="checkbox"/> Tier II Reporting (EPCRA 311/312)	147
<input type="checkbox"/> Emergency Planning (EPCRA)	25

- Emergency Planning and Community Right-to-Know
- Tier II Reporting (EPCRA 311/312)

[Remove all filters](#)

Displaying 1 - 15 of 303 results

[Recommended approach for reporting lead acid batteries when complying with Tier II reporting](#)

Does EPA have a standard or recommended reporting approach for lead acid batteries when complying with EPCRA Section 312 Chemical Inventory Reporting (i.e., Tier II reporting)? EPA suggests that facilities report for lead acid





Submittals to State Emergency Response Commission (SERC)

Tier II – Electronic Submittal in E-Plan meets submitting to the NC SERC
(and *most* NC LEPCs/local fire departments)

Facilities may upload other regulatory documents into E-Plan or
send hazardous material/waste documents electronically to

epcra@ncdps.gov

NO HARDCOPIES REQUIRED!!!

RCRA Hazardous Waste Contingency Plans

Hazardous Cleanup Reports

304 Follow Up Notifications





Emergency Management
NC DEPARTMENT OF PUBLIC SAFETY

NORTH CAROLINA CHEMICAL ACCIDENT PREVENTION PROGRAM



Risk Management Program



North Carolina Emergency Management Hazardous Materials





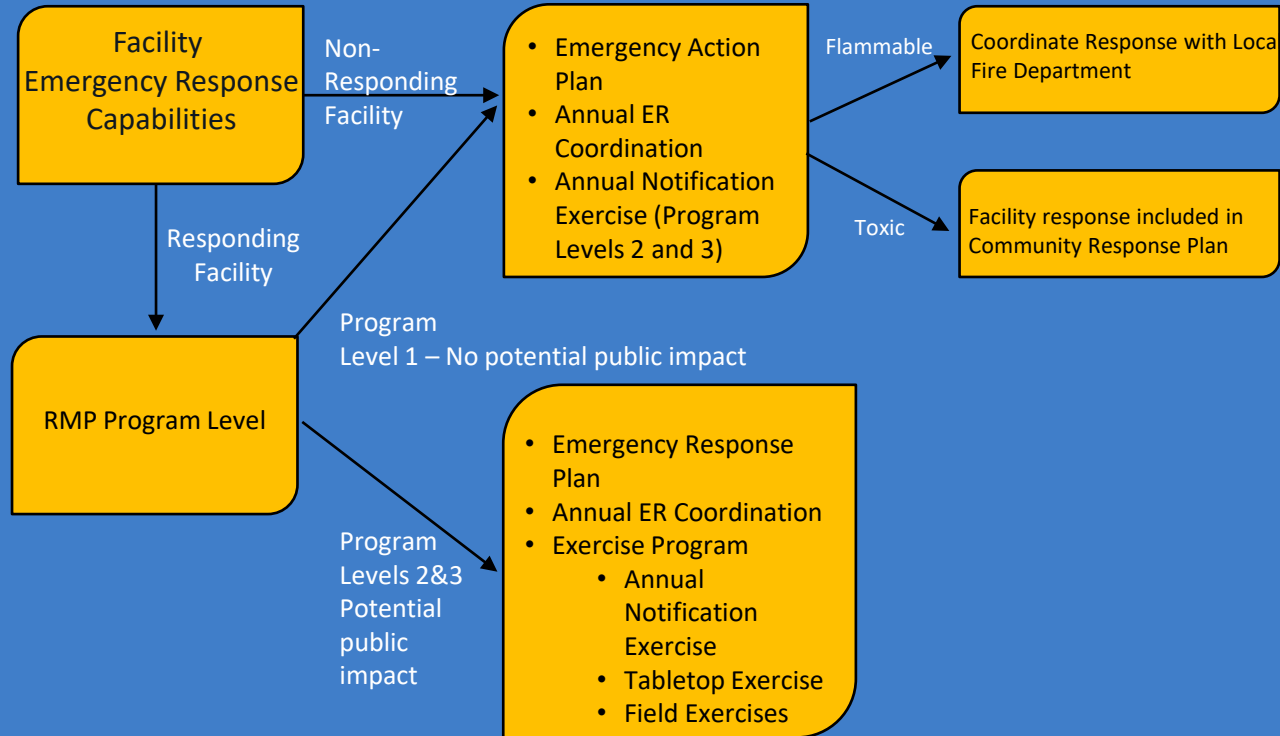
December 19, 2019 RMP Final Rule

Activity to Complete	Due Date
Develop Emergency Response Program - Chemical, Quantity, Resource and Capabilities	Within three years of owner or operator determining that facility is subject to the provisions
Annual Coordination Requirements -Updates to Community ERP	Facilities shall coordinate response needs with local emergency planning and response organizations annually and more frequently if necessary.
Develop exercise plans and schedules – facility ER staff, contractors	December 19, 2023 Frequency determined by coordination with facility and local emergency response officials
Conduct first annual notification exercise	December 19, 2024 Notification exercises. At least once each calendar year, the owner or operator of a facility with any Program 2 or Program 3 process shall conduct an exercise of the facility's emergency response notification mechanisms
Conduct first field exercise -simulated accidental release	According to the exercise schedule established by the owner or operator in coordination with local response agencies
Conduct first tabletop exercise -simulated accidental release	December 21, 2026 Frequency at minimum every 3 years





RMP Facility Category Flowchart





December 2023 Written Exercise Program Responding Facilities

The owner or operator shall consult with local emergency response officials to establish an appropriate exercise type (tabletop, field, full scale, etc.) and appropriate frequency. The Emergency Response Exercise Program Shall Include:

- **The exercise type** – to involve the simulated accidental release of a regulated substance (toxic/flammable/both)
- **Frequency** - annual, 3-year, 5-year, 10-year, etc.
- **Scope** – Test plan, personnel and equipment
- **Documentation**





Facility ER Requirement - Notification Exercise

- For Program Level 2 and 3 Facilities (facilities that have the potential to chemical release to the public)
- Annual requirement, initial conducted before December 19, 2024, annually after
- Exercise emergency notifications
- May complete as part of tabletop or field exercise
- Facilities must keep record of notifications for a 5-year period



Responding Facilities Emergency Response Exercises

- Exercises shall involve facility emergency response personnel and emergency response contractors (if facilities rely on response contractors)
- Local public responders must be invited to assist with planning and participate in the exercise
- Facilities and local responders determine the frequency and type of field exercises
- Tabletop exercises must be completed before December 21, 2026, and then minimally once every 3 years.





Facility ER Exercise Documentation

- The facility must prepare an evaluation report within 90 days of the field or tabletop exercise.

Emergency Response Exercise Facility Documentation

Name and contact information for coordination participants
(phone number, email address, and organizational affiliations)

Date of Exercise

Description of Exercise Scenario

Evaluation of Exercise Results (lessons learned, recommendations, improvements, emergency response or exercise plan revisions, schedule to address recommendations)



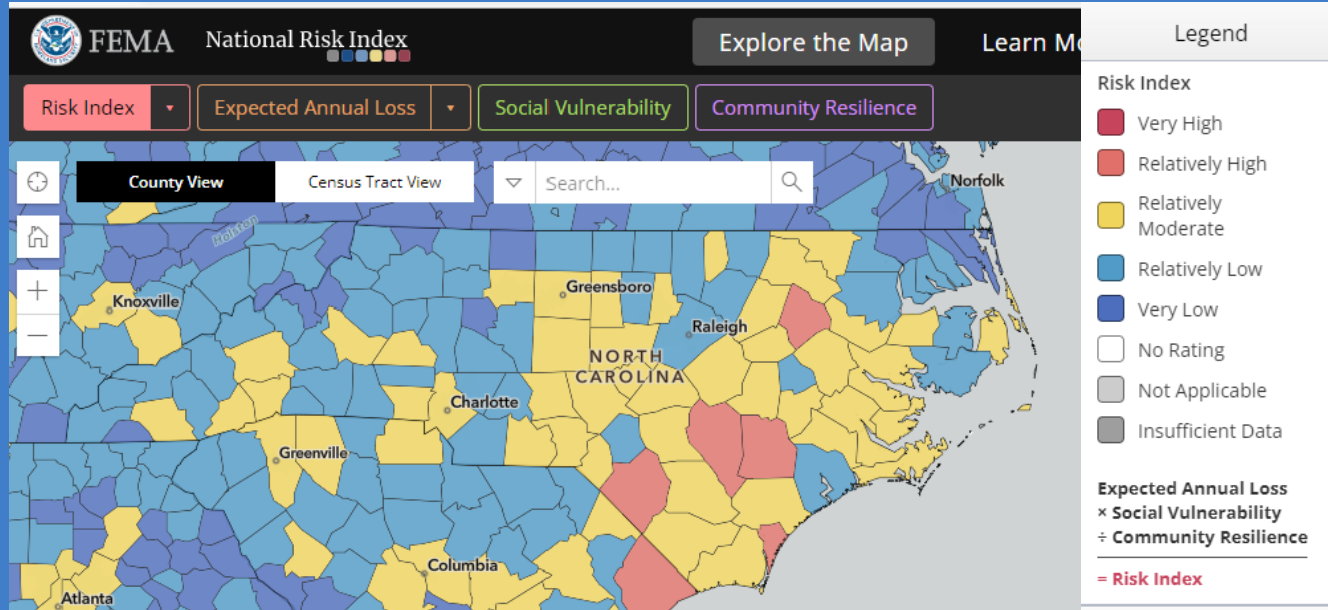


RMP Proposed Provisions

1. Evaluate risk from natural hazards and power loss
2. Evaluate community risk (facility siting)
3. Adopted safer technologies and alternative analysis
4. Root cause analysis incident investigations
5. Third party compliance audits
6. Enhanced employee participation
7. Emergency response requirements
8. Enhanced Emergency response exercises
9. Enhanced information availability
10. Other areas of technical clarification



Natural Hazard Analysis



EPA requested if they should develop additional guidance for assessing natural hazards

- Best practice for any hazardous materials facility is to include natural hazards in the facility emergency procedures





EPA/DWR Recommendations for Emergency Planning

- Identify alternate vendors in case their primary vendor is unavailable.
- Develop cybersecurity response procedures and verify IT vendor cybersecurity practices.
- Encourage vendors to join the North Carolina Disaster Re-entry Vendor Certification program (NCEM BEOC).
- Practice manual plant operations.
- Investigate options for additional chemical storage.
- Determine the size and type of generators a system may need to operate during a power outage.
- Verify that utility infrastructure is on an electrical provider's priority restoration list.





Emergency Response Plans

- EPA requested comments on impediments to accessing community emergency response plans
- Site security, Chemical Facility Anti-Terrorism Act
- Consider adding a public information section to emergency plans detailing:
 - public emergency notification procedures,
 - emergency alert system access,
 - potential public response
 - hazardous substance exposure symptoms\
 - medical treatment locations (equipped and prepared to receive exposed patients)





North Carolina Regulations

ncdps.gov/our-organization/emergency-management/hazardous-materials/north-carolina-rules-and-regulations

Region 7 RMP Webi... | NCGS 166A-20 HM... | Hazmat | Training, Exercise &... | Chapter 166A_NCEM | Region 7 Risk Mana... | DriveNC.gov | Nort...

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North Carolina Emergency Management Act [NCGS Chapter 166A](#)

- Regional Response Team** § 166A-22-28 covers the hazardous materials emergency response program including contracts, equipment loans, regional response team advisory committee, and recovery cost from a hazardous materials response.
- Emergency Planning and Fee Schedule** § 166A-29 covers emergency planning fees for fixed facilities including annual Tier II and fee exemptions.

Department of Labor and Labor Regulations [NCGS Chapter 95 Article 18](#) Identification of Toxic or Hazardous Substances defines hazardous chemicals adopted by the Occupational Safety and Health Division of the North Carolina Department

Oil Pollution and Hazardous Substances Control [NCGS Chapter 143 Article 21](#) to support applicable provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. Section 1251 and the National Contingency Plan.

Risk Management Program [15A NCAC 2D .2100](#) to support applicable provisions to 40 CFR Part 68 - Chemical Accident Prevention Provisions.

State Emergency Response Commission [Executive Order 242](#) North Carolina complies with the Emergency Planning, and Community Right-to-Know Act (EPCRA) appointment of the State Emergency Response Commission and receiving public information request, including Tier II information to support applicable provision of 42 U.S.C. §§ 11001-11050.

[Local Emergency Planning Committees](#)

[North Carolina Rules and Regulations](#)

[EPCRA/Tier 2](#)

[Risk Management Program \(CAA 112r\)](#)

[America's Water Infrastructure Act](#)

[Regional Response Teams](#)

[Hazardous Materials Storage](#)

[Emergency Response Resources](#)





NCEM Hazmat Resources

<https://www.ncdps.gov/our-organization/emergency-management/hazardous-materials>

- LEPC contacts and resources such as National LEPC-TEPC Handbook and Chemical Exposure and Medical Treatment
- EPCRA/Tier II common questions and answers
- Emergency planning and response resources

[Chemical Release Notifications for Facilities](#)

[Chemical Safety & Reporting](#)

[Local Emergency Planning Committees](#)

[North Carolina Rules and Regulations](#)

[EPCRA/Tier 2](#)

[Risk Management Program \(CAA 112r\)](#)

[America's Water Infrastructure Act](#)

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[Hazardous Materials Storage](#)

[Emergency Response Resources](#)





Cyber Security Response Force

Provide cyber security assistance to State, Local, and Critical Infrastructure providers

Assessment

- Assessment of information security program, environmental factors, and technical area review
- Purpose is to identify potential gaps in coverage as well as provide baseline of improvement recommendations
- Conducted using industry best practices and DOD Security Technical Implementation Guidelines (STIGs)
- Output is comprehensive report outlining vulnerabilities and recommended solutions





N.C. Joint Cybersecurity Task Force

State Agencies	Local Governments, Academic Institutions & Private Sector Entities
Contact the NCDIT Customer Support Center at 800-722-3946.	Report cybersecurity incidents to the N.C. Joint Cyber Security Task Force by contacting the N.C. Emergency Management 24-Hour Watch Center, at NCEOC@ncdps.gov or at 1-800-858-0368.
Use the Statewide Cybersecurity Incident Report form .	For general inquiries or support, contact the N.C. Joint Cyber Security Task Force at ncisaac@ncsbi.gov .

<https://it.nc.gov/programs/cybersecurity-risk-management>





CISA Chemlock

<https://www.cisa.gov/resources-tools/programs/chemlock>



- Chemlock On-Site Assessments and Assistance
- Resources
- Facility security plan exercises
- Live training to assist owners, operators, facility personnel, and retailers



POCs for HAZMAT, Tier II or RMP Questions

NCEM Hazardous Material Coordinators:

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Risk Management Program

Stefan Coutoulakis – Tier II, CAMEO

Cole Owen – Hazardous Materials Emergency Planning Grant

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POC for RMP Regulatory Compliance Questions

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