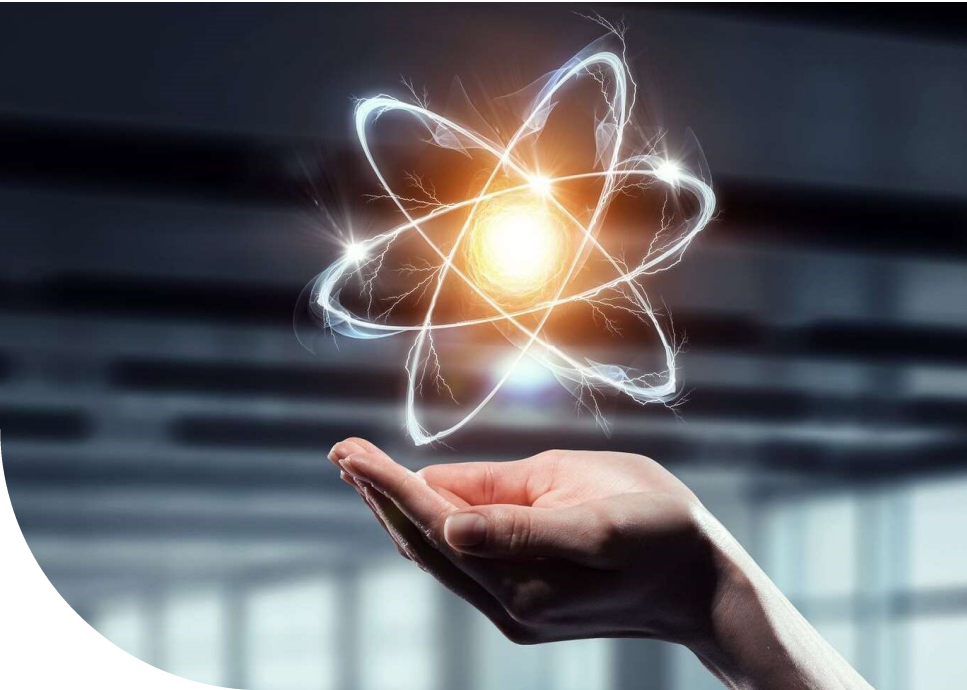


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Nuclear: Today, Tomorrow and for the Future

Christopher Smith, director, Nuclear Engineering

THREE NUCLEAR STRATEGIES



- **TODAY**, continue safe, reliable, innovative and efficient operations
- **TOMORROW**, extend the operational life of our nuclear fleet and produce more energy by upgrading components through power uprates and gaining efficiencies through 24-month refueling cycles
- For the **FUTURE**, pursue new nuclear generation options to modernize our system and meet the growing needs of our customers

Nuclear generation is the only clean energy source that is always on and available 24 hours a day, complementing renewables like solar.

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Power Uprate Projects

Total: 291 MWe = 1 small modular reactor



Brunswick Nuclear Plant
to add 20 MWe by 2029

McGuire Nuclear Station
to add 150 MWe by 2030

Catawba Nuclear Station
to add 75 MWe by 2031

Oconee Nuclear Station
added 46 MWe in 2024



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Power Upgrades and 24-Month Fuel Cycle Projects



2024: Measurement uncertainty recapture upgrade at Oconee added 46 MW



2028-2029: Measurement uncertainty recapture upgrade at Brunswick will add 20 MW



2029-2030: Extended power upgrade at McGuire will add 150 MW



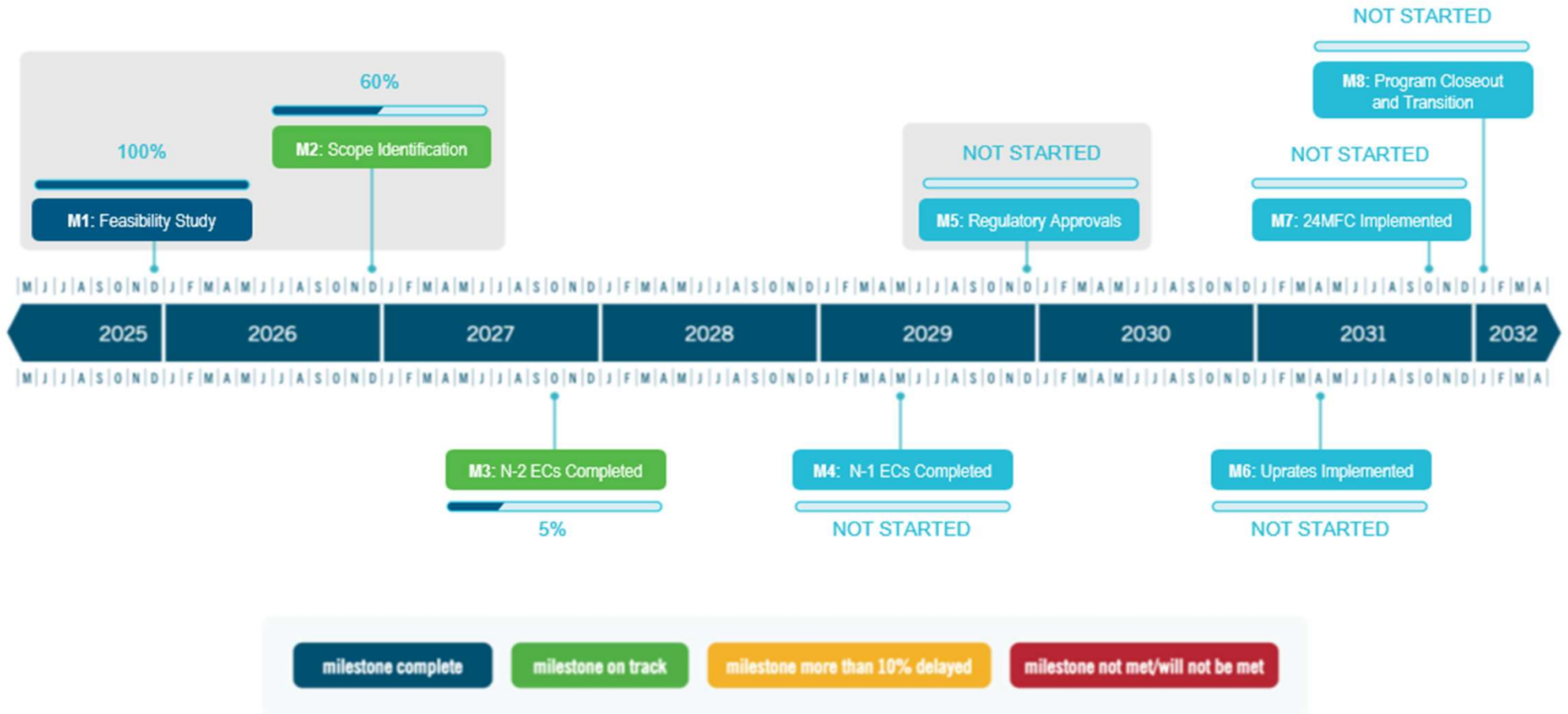
2031: Extended power upgrade at Catawba will add 75 MW

Total: 291 MW = 1 small modular reactor



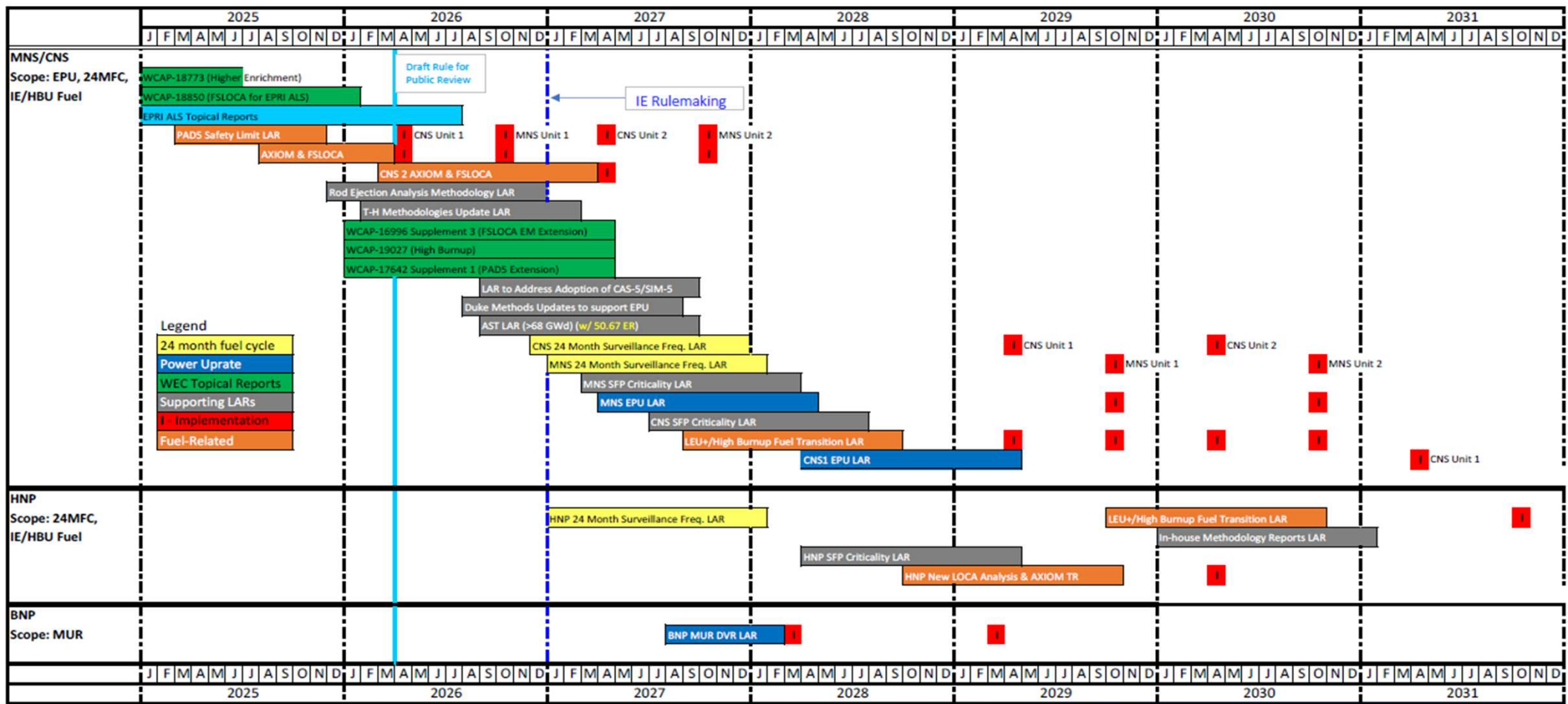
2029-2031: Catawba, Harris and McGuire will transition to 24-month fuel cycles

Strategic Capital Program Milestones



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Licensing Submittals



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Key Collaborations



- Revision of LIC-112, “Power Uprate Process”
 - Graded Approach Binning
- DOE Capacity Expansion Working Group (CXWG)
 - Coordination and Acceleration of key industry efforts
 - Move the needle on supplier capacity and quality

