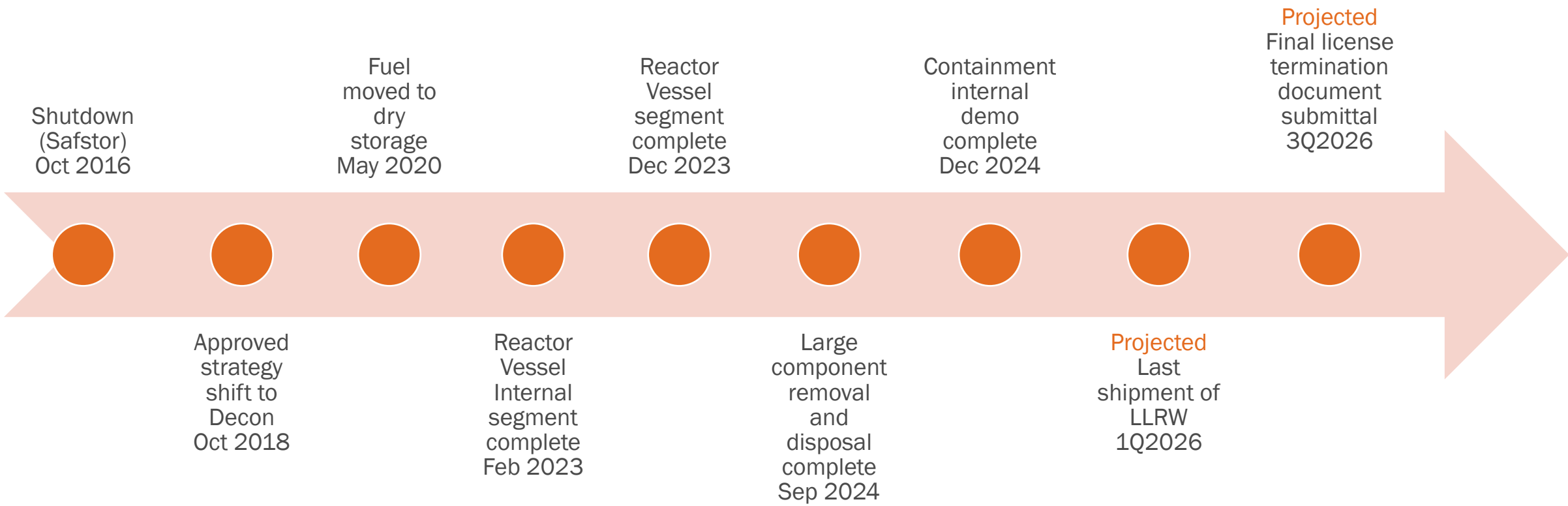
Omaha Public Power District

Fort Calhoun Station Decommissioning Lessons Learned

January 15,2025

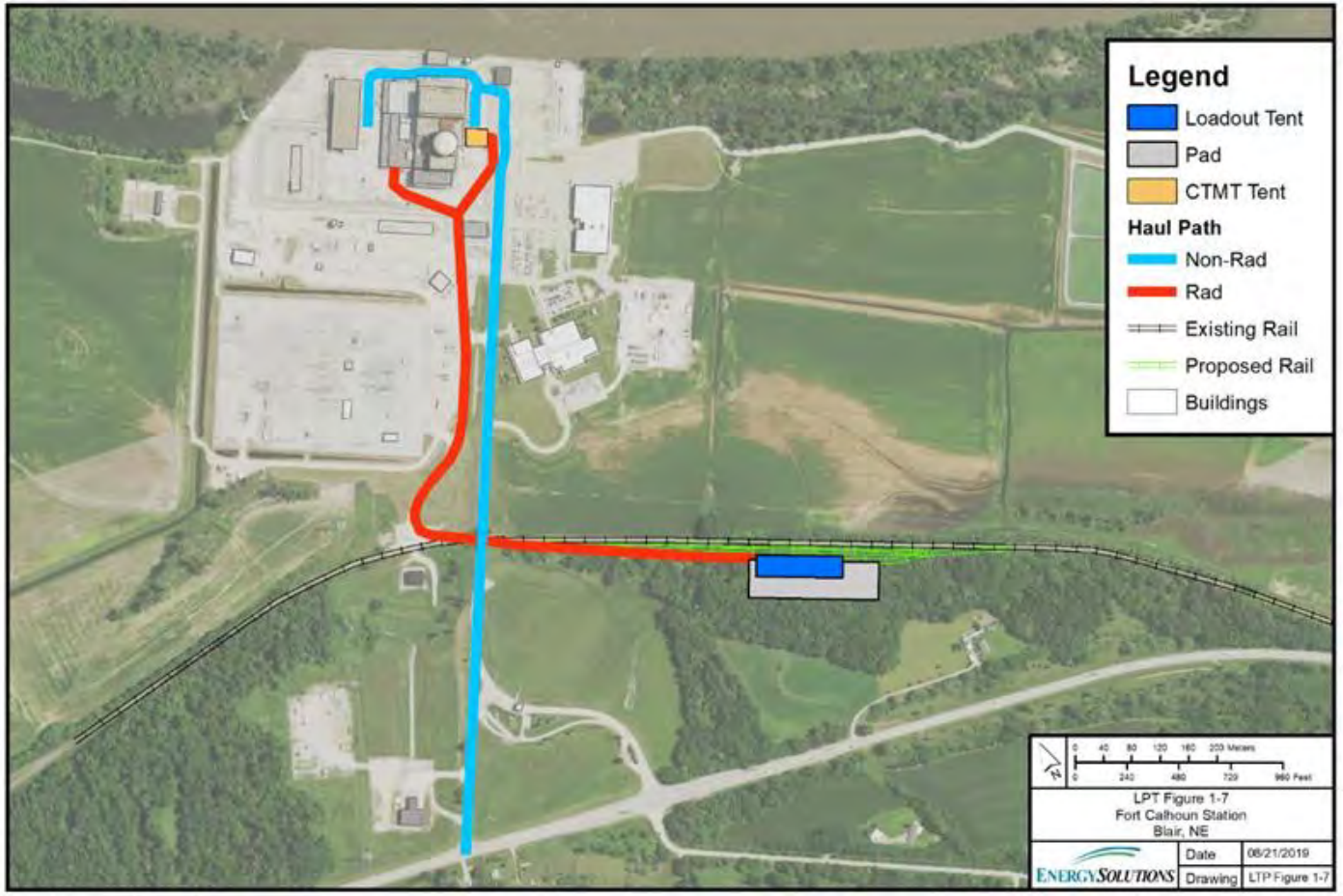
Fort Calhoun Decommissioning Timeline



Utilizing Industry Lessons Learned

- OPPD contracted with Energy*Solutions* to provide experience and expertise for critical decommissioning activities
  - Allows OPPD to self-perform where feasible and team with an experienced decommissioning supplier for core activities while capturing lessons learned from past and ongoing projects
    - Methodology for demolition of radiological structures – surgical and open-air
      - Use of temporary structure immediately adjacent to containment
    - Large component removal methodology
      - Reactor Vessel removal challenges
      - Steam Generator removal success
    - Radiological waste management, including shipment and disposal
      - Additional means implemented to ensure compliant shipments
    - Final Status Survey (FSS)/License Termination Plan development and execution

Contamination Control Lessons Learned



- Clean waste haul route
  - URS prior to demolition
  - Survey of container/vehicle leaving IA
  - Truck monitor before leaving site
- Dedicated Radwaste haul route between CWS and WPS at rail spur

Contamination Control

Containment Waste Structure

Survey out of WPS

Load rail cars in WPS

Waste Processing Structure

Loading waste in CWS

Survey out of CWS

Survey out of IA

Dedicated haul road

Towed Array

Project Challenges

- Updating the License Termination Plan in response to conditions identified in structures to remain coupled with the lengthy NRC review process
  - Requires near-term project decisions to be made at risk prior to formal NRC response

- Personnel resource availability
  - Experienced FSS technical experts to develop the intricate plans and review results
  - Field Radiation Protection technicians with FSS experience
  - Availability of various craft with or without nuclear experience in the general area

- Environmental conditions
  - Challenges typical for outdoor construction projects – hot, cold, snow, rain, etc.
  - Flooding impacts, required mitigation activities, and recovery