

# CR3 RV/RVI Package Transportation Update

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What are we transporting?

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How are we handling and shipping?

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When and where will shipments occur and how are they being organized?

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01

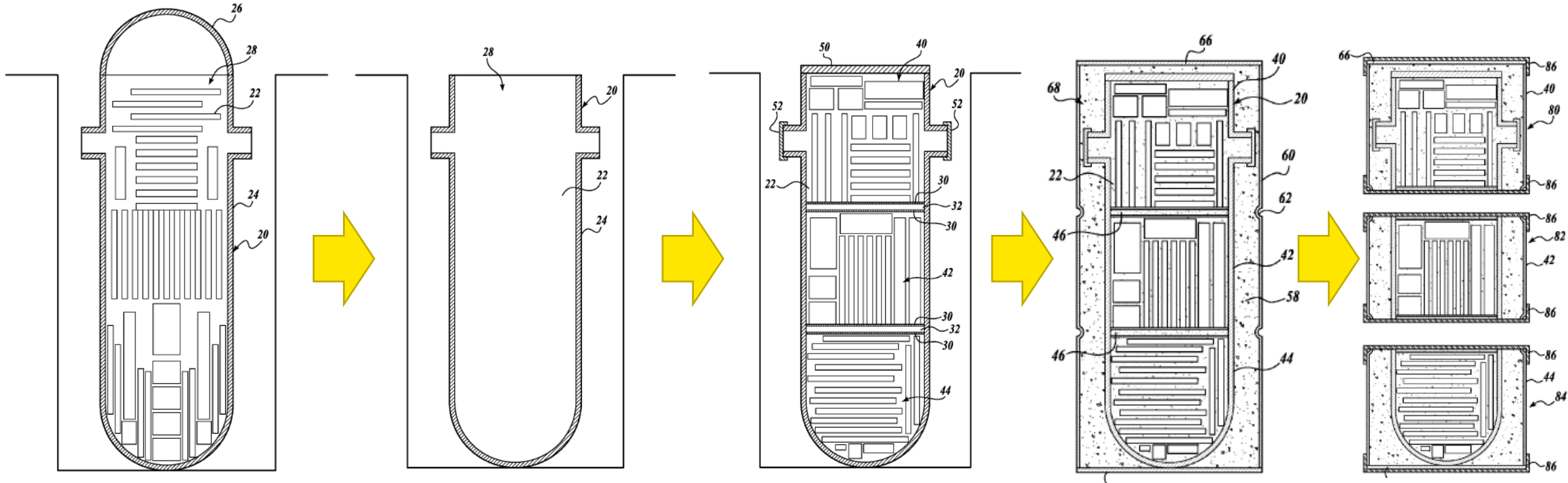
**CR3 Project Scope**

What are we transporting?



# 01 • Optimized Segmentation – Decommissioning & Services

➡ A different process from that implemented at Vermont Yankee



01 • **Four Packages** – Decommissioning & Services

|              | Type | UN Number       | Outer Diameter | Package Height | Weight (Tons) |
|--------------|------|-----------------|----------------|----------------|---------------|
| <b>RVCH</b>  | IP1  | UN2913 (SCO)    | 16'9"          | 8'             | 95            |
| <b>CR3TP</b> | IP2  | UN3321 (LSA-II) | <b>19'</b>     | 12'11"         | 372           |
| <b>CR3MP</b> | B    | UN2916          | 16'9"          | <b>14'11"</b>  | <b>430</b>    |
| <b>CR3BP</b> | IP1  | UN3321 (LSA-II) | 15'2"          | 6'6"           | 95            |



# 01 • Packaging Design & Fabrication – Decommissioning & Services



# 02



## **Transportation Logistics**

How are we handling & shipping?



# 02 • Transfer and Roll-On at CR3 – Nuclear Packaging & Services





# 02 • Barge Transport Configuration – Nuclear Packaging & Services



# 02 • RVCH OTR Transport Configuration – Nuclear Packaging & Services





# 02 • Edwards Moving & Rigging: Faktor 5 High Girder Bridge





# 02 • Edwards Moving & Rigging: Faktor 5 High Girder Bridge



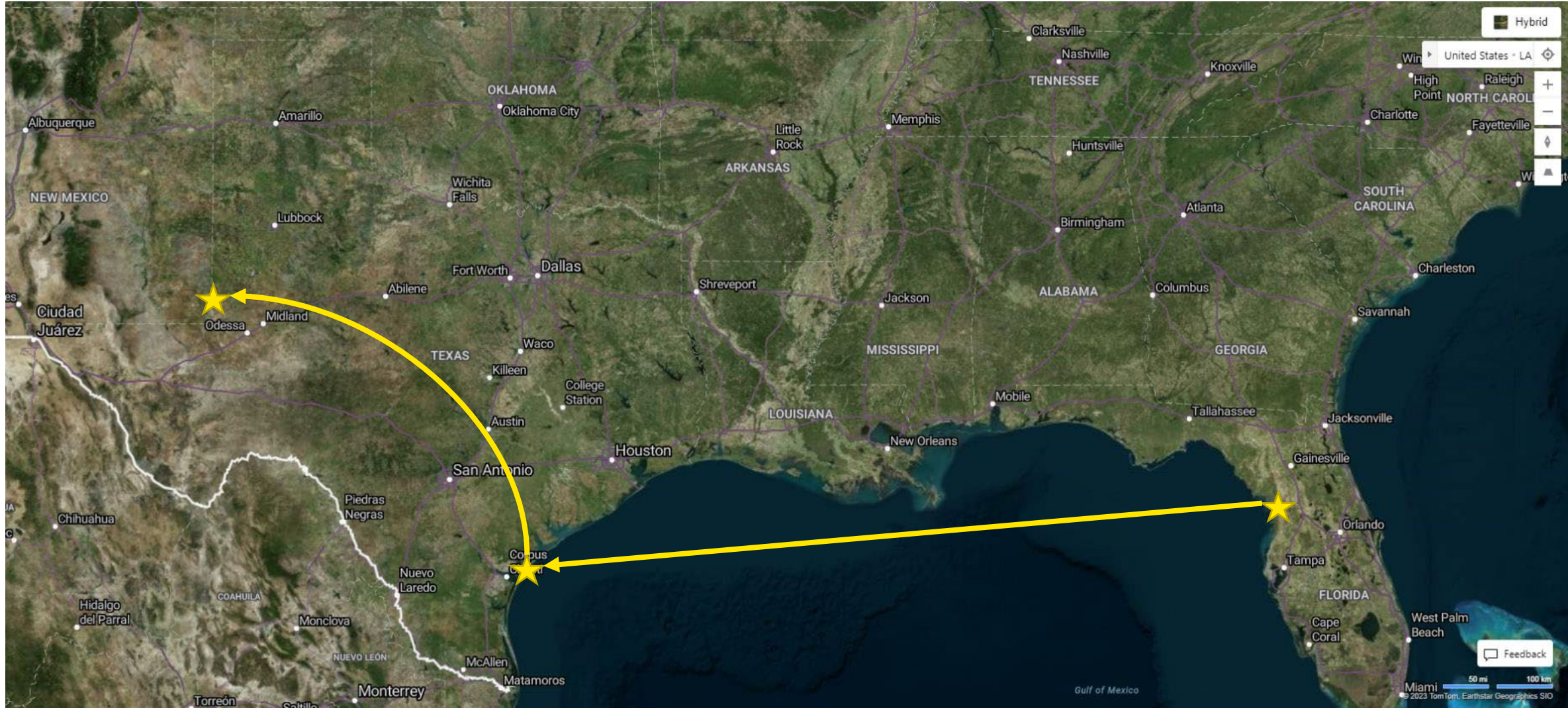


# 03

## ● **Planning**

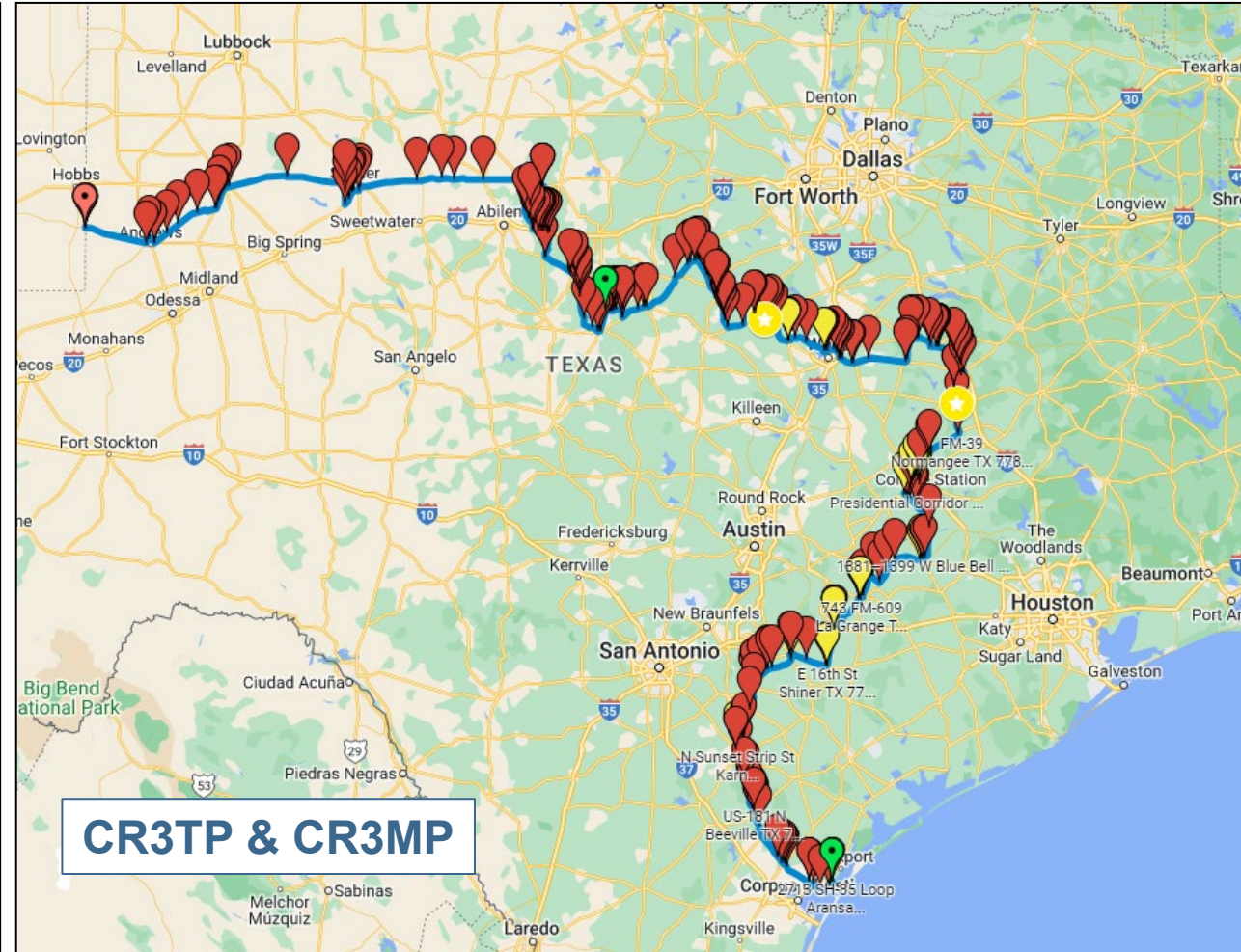
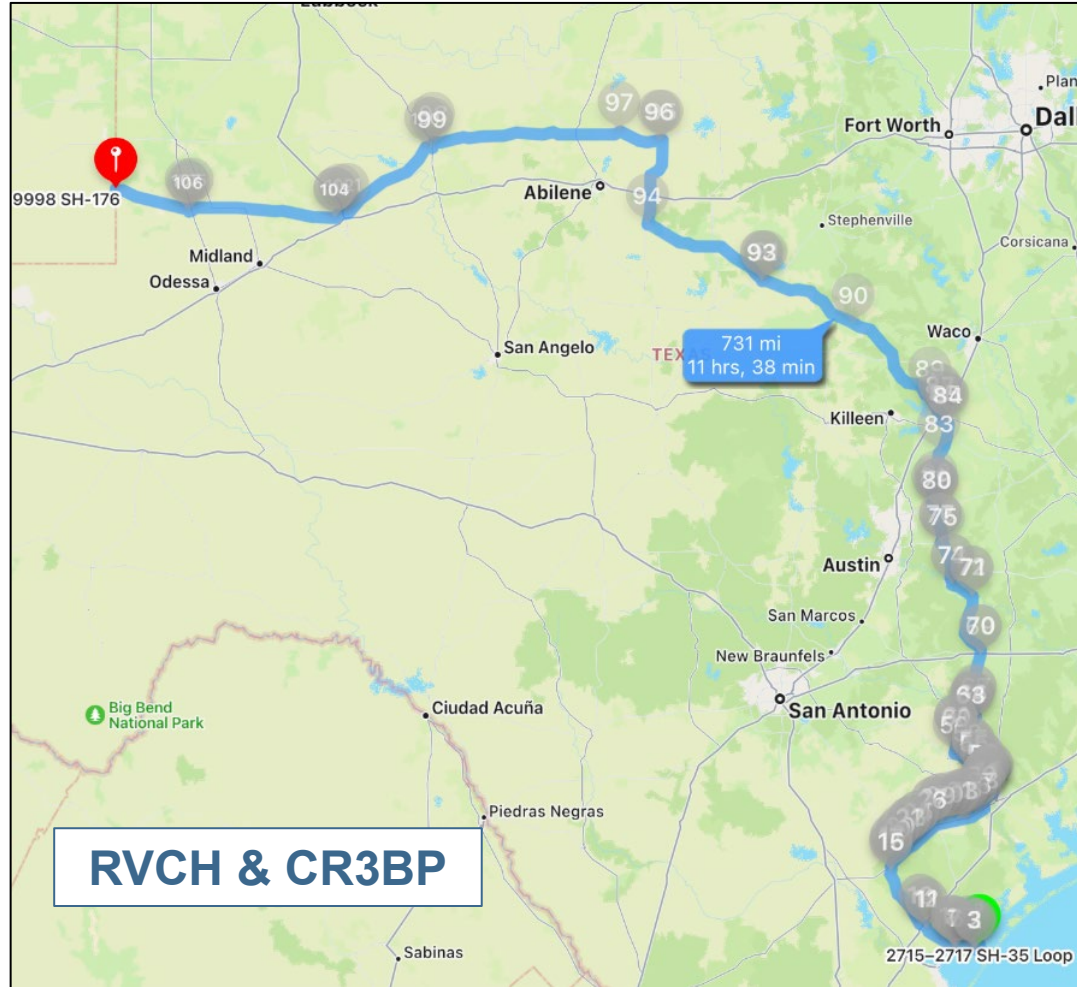
When and where will shipments occur and how are they being organized?

# 03 • Logistics: Barge to Heavy Haul – Nuclear Packaging & Services

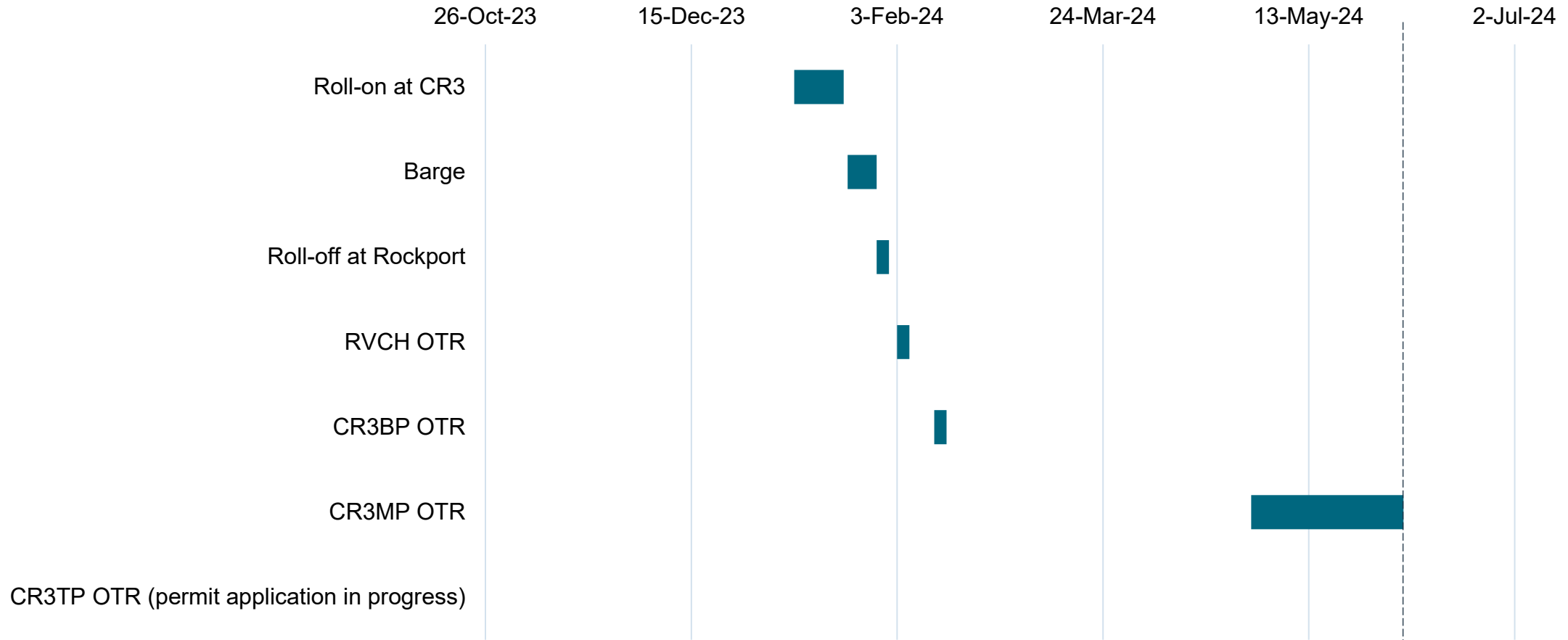




# 03 • Two Routes in Texas – Nuclear Packaging & Services



# 03 • Current Schedule – Nuclear Packaging & Services





## 03 • **Security & Event Response** – Nuclear Packaging & Services

### **Exempt from physical protection requirements of 10 CFR 37 subpart D**

- Contents of each package will be a monolithic solid block with no loose components
- Weights of these monolithic pieces are well above the 4,409 lbs. threshold for exemption
- Exemption of 10 CFR 37.11(c) applies

### **CR3MP will NOT be highway route controlled quantity (HRCQ)**

- No Security Plan required per DOT regulations in 49 CFR 172.800(b)

### **Preplanned & approved route**

### **Escorts**

### **GPS tracking**

### **Weather tracking**

### **TN Transportation Event Response Plan**



# 04 ● Conclusions

## 04 • **Building on the Experience of Successful Vermont Yankee RWC Campaign** – Nuclear Packaging & Services

**Four large, heavy radioactive material packages**

**Handling and logistics are quite different from VY**

**Planning and organization**

- Deepwater barge direct from FL to TX
- 10 CFR 37.11(c) exemption applies
- The CR3MP is NOT be HRCQ

**Transport of 2 smaller packages were uneventful and quick**

**Permitting process for one million lbs conveyance is a different game**

- Permitting through multiple jurisdictions in TX proved to take more time than expected
- Conflicts between planned road construction work and transport needs



**Expert project performance achieving all compliance, coordination, and safety requirements**





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Giving nuclear energy its full value



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