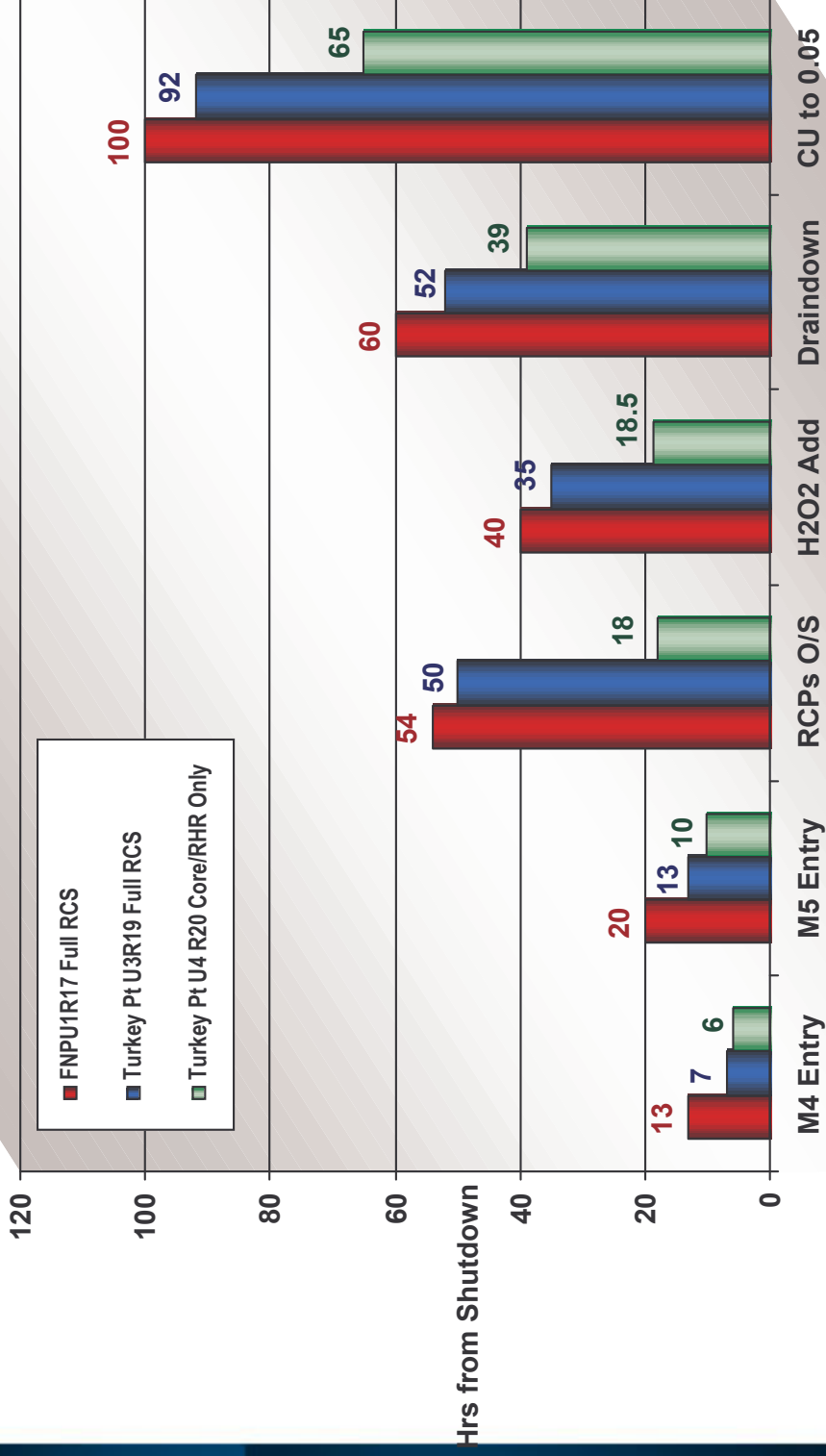


Workshop Review of OE with Faster Shutdown Sequences

2003 International ISOE ALARA Symposium

Faster Shutdown Sequence = New Opportunities to Reduce Costs



Turkey Point OE w Core/RHR Shutdown Sequence

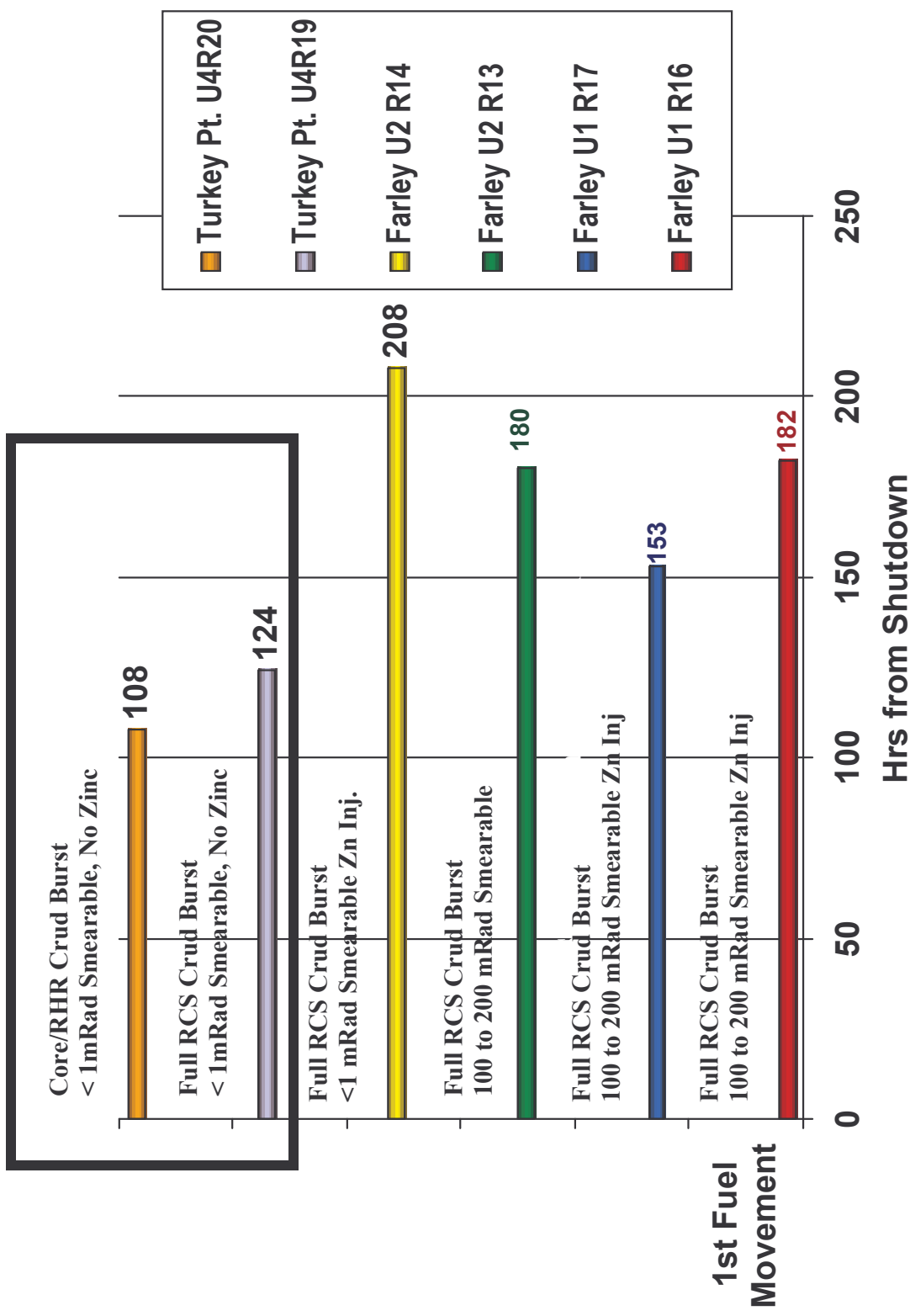
- **ALL RCPS O/S + 18 hrs**
 - ❖ Initiates Containment AC
 - ❖ Early Containment Access
 - ❖ Heat Stress Conditions Shortened 24 hours

- **Isolates SG from Core CRUD Burst Activity**
 - ❖ RCS Concentration at SG Isolated @ 0.2 $\mu\text{Ci/cc}$
 - ❖ Core/RHR Peak Activity = 4.3 $\mu\text{Ci/cc}$
 - ❖ IMPACT:
 - ✓ Doesn't Exposure SG To High RCS Activity Levels
 - ✓ Clean-up Faster, 1/2 the RCS water volume for Clean-up

- **Radiological Conditions - Very Good**
 - ❖ Contamination Levels 50K to 100K smearable
 - ❖ Dose Rates Low

- **Critical Path Reduction 24 Hours**
 - ❖ Fastest Time to Fuel Movement
 - ❖ U4 15 day 15 hour 45 minute Refuel

Comparison of Outage Time to 1st Fuel Movement Turkey Point and Sister Plant Farley



CORE/RHR Sequence

- **Turkey Point U4 March 2002**
- **Turkey Pont U3 March 2003**
- **Sequoyah Unit 1, Fall 2001**
- **Sequoyah Unit 2, Fall 2002**

- **All Plants Report Higher Start-Up
CRUD Release**
 - ❖ **Must Flush RHR or Live with Higher Dose
Rates**