

Nuclear Waste Program

Washington State Dept. of Ecology

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Topics

- Our mission at Hanford
- PUREX tunnel collapse
- AZ-101
- Rev. 8c permit updates
- Rev. 9 permit progress
- New inspectors



Ecology's mission at Hanford



- Ensure that Hanford cleanup protects our air, land and water
- Safeguard human health now and into the future



The collapse



- Worker texts, Tweets alerted media
- We began to gather information and monitor situation
- Clear that site infrastructure failed
- We issued order within 24 hours to ensure tunnel was assessed and stabilized



The response

- DOE did a great job filling the collapsed area with dirt within 24 hours.
- We agree in this specific case that grout is the best interim step
- As DOE moves ahead with grout, we are reviewing and reassessing Hanford cleanup priorities



PUREX Tunnel No. 1 under construction in 1956. Built from wood timbers; not a structure intended to last through the ages.



AZ-101



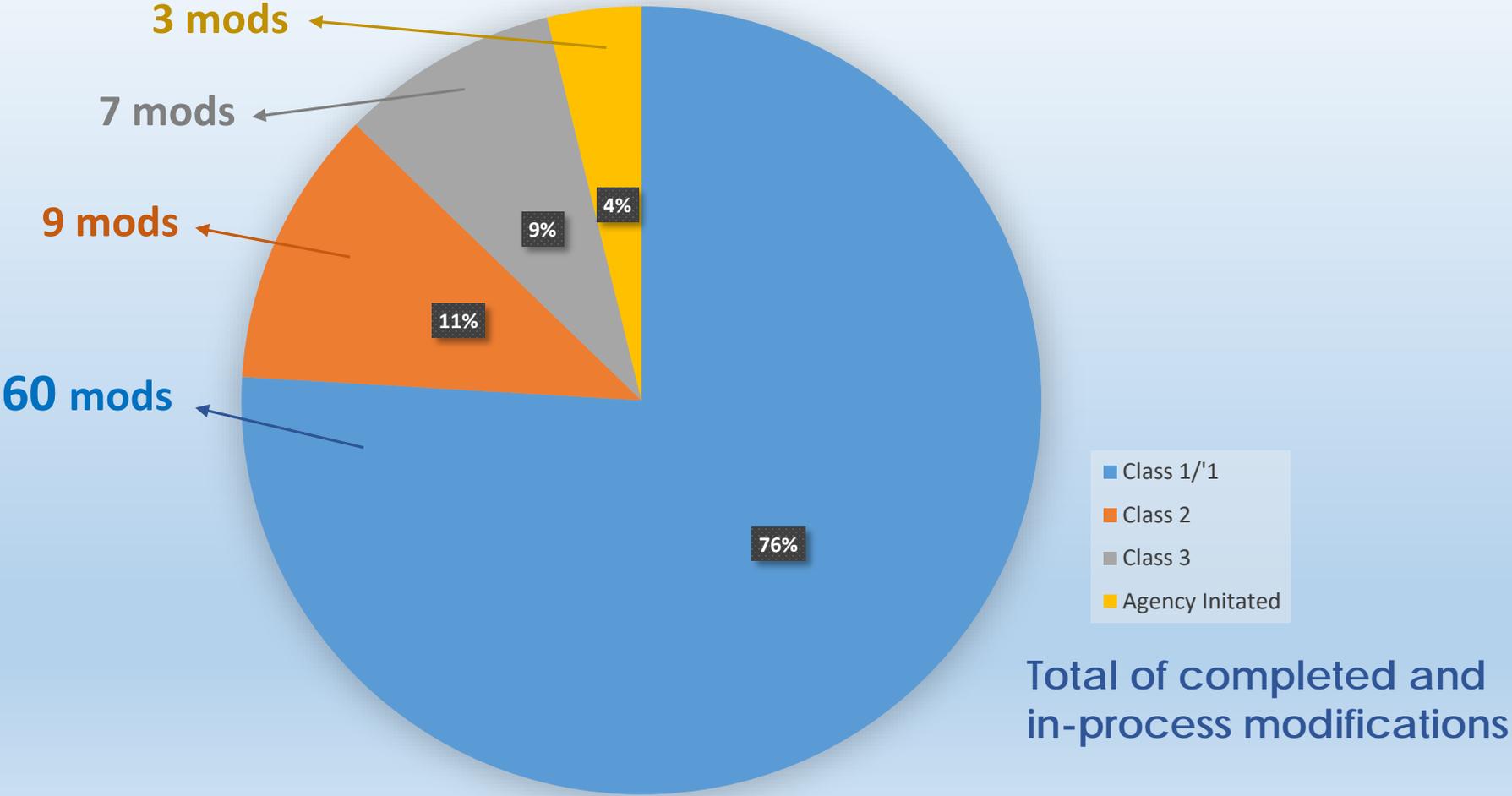
Working in annulus during construction of double-shell tank.

- Inspection crawler emerges contaminated.
- We asked Energy to check for signs of primary tank leaks.
- Evidence indicates primary tank is not leaking.
- We've asked DOE to identify the source of the material that contaminated the crawler.



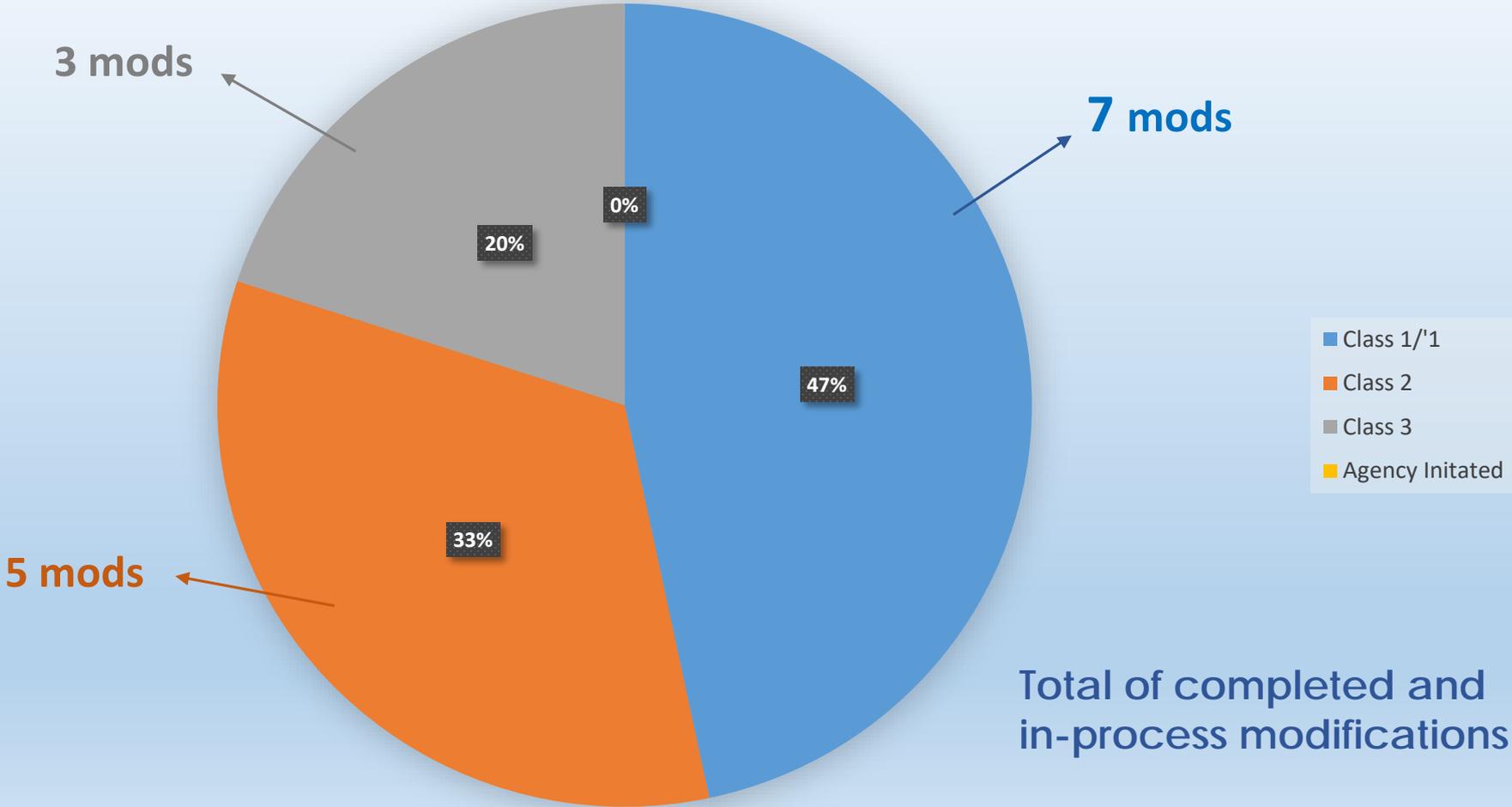
Permit Modifications – Rev. 8c

2016 Modifications by Class



Permit Modifications – Rev. 8c

2017 Modifications by Class (to date)



Permit Mod Forecast – Rev. 8c

for June-August

Unit	Class 2	Class 3	Agency initiated
Lab Operating Permit		X	
LAWPS Permit Application		X	
EMF Direct Feed LAW Process System Ancillary Equipment and Piping*	?		?
EMF Evaporator Equipment and Direct Feed LAW Process System Process Vessels			X
EMF Preheater, Exhauster, HEPA Housings, and Direct Feed LAW Vessel Vent Process System Piping**	?	?	?

*Will either be a Class 2 or an agency-initiated permit modification.

**Permit modification classification is TBD



Permit Mod Forecast – Rev. 8c Cont.

(for June through August)

Unit	Class 2	Class 3	Agency initiated
242-Evaporator – Permit Conditions, Part A, Chapters 1, 6, and 7	X		
LERF/ETF – Addendum D	X		
LERF/ETF – Permit Conditions, Part A, Addenda B, C, H, and I	X		
SWOC CWC: Outside Storage Area A, Outside Storage Area B, and D-10 Outside Storage Area		X	
SWOC T Plant: 277-T Building, 277-T Outdoor Storage Area, 211-T Pad, and 271-T Cage		X	



Rev. 9 Progress

- We worked to a schedule to bring Rev 9 to the Unit Group Workshop stage.
- We have now developed a schedule to complete the Unit Group Workshops.
- We update the schedule regularly to reflect progress on Rev. 9 permitting efforts.

CAP Status

Reissue Rev. 9 Permit

March 2017	Completed CAP	Rolled-up Data	Presented to DOE	Major Theme Workshops	Unit Group Workshops
Part A	✓	✓	✓	✓	Started unit group workshops with DOE.
Security	✓	✓	✓	✓	Ready to start unit group workshops with DOE.
Closure	✓	✓	✓	MT workshop with DOE 90% complete. Teams are resolving RCRA/CERCLA integration (closure plan binning templates) and closure final cover level of design issues.	Ready to start unit group workshops with DOE after 2 remaining issues resolved.
Post-closure	✓	✓	✓	Workshop on hold waiting for available meeting time.	
Groundwater	✓	✓	✓	✓	Started unit group workshops with DOE.
Inspections	✓	✓	✓	Stated MT workshop with DOE 95% resolved.	
Training	✓	✓	✓	Started MT workshop with DOE.	
Waste Analysis Plan	Under Review-final draft stage				
Process	Under Review-draft stage				
Preparedness & Prevention	Ecology reviewing Rev 9 documents against CAP				
Contingency	Draft in internal review				
HEMP	Information on HEMP incorporated into Contingency Plan CAP	→	→	✓	HEMP will be submitted as a Class 3 modification to 8c Permit



New Inspectors

Scott Miller



- 5 hazardous waste inspectors (fully staffed)
- Completing rigorous 8-12 month training curriculum
- July: will start leading inspections under supervision

Jack Davis



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