



# THE HANFORD SITE

## 242-A Evaporator Update

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- The 242-A Evaporator is located in the 200 East Area, near the center of the Hanford Site
- The 242-A Evaporator is designed to concentrate the radioactive and hazardous waste stored in the tank farms
- The mission of the 242-A Evaporator is to support environmental restoration and remediation of the Hanford Site by optimizing the 200 East Area double-shell tank (DST) waste volumes through radioactive liquid waste volume reduction. Volume reduction is accomplished through an evaporation process.

- The 242-A Evaporator removes water from DST waste, freeing up space to receive waste from single-shell tanks
- The evaporator uses a conventional forced-circulation, vacuum evaporation system to reduce waste volume. The evaporator treats the waste by removing water and most volatile organics.
- Waste is received from Tank AW-102 for treatment
- The evaporator produces two streams. The concentrated slurry stream is routed back to the DST system for storage pending further treatment. The process condensate stream is pumped through an encased underground pipeline to the Liquid Effluent Retention Facility.

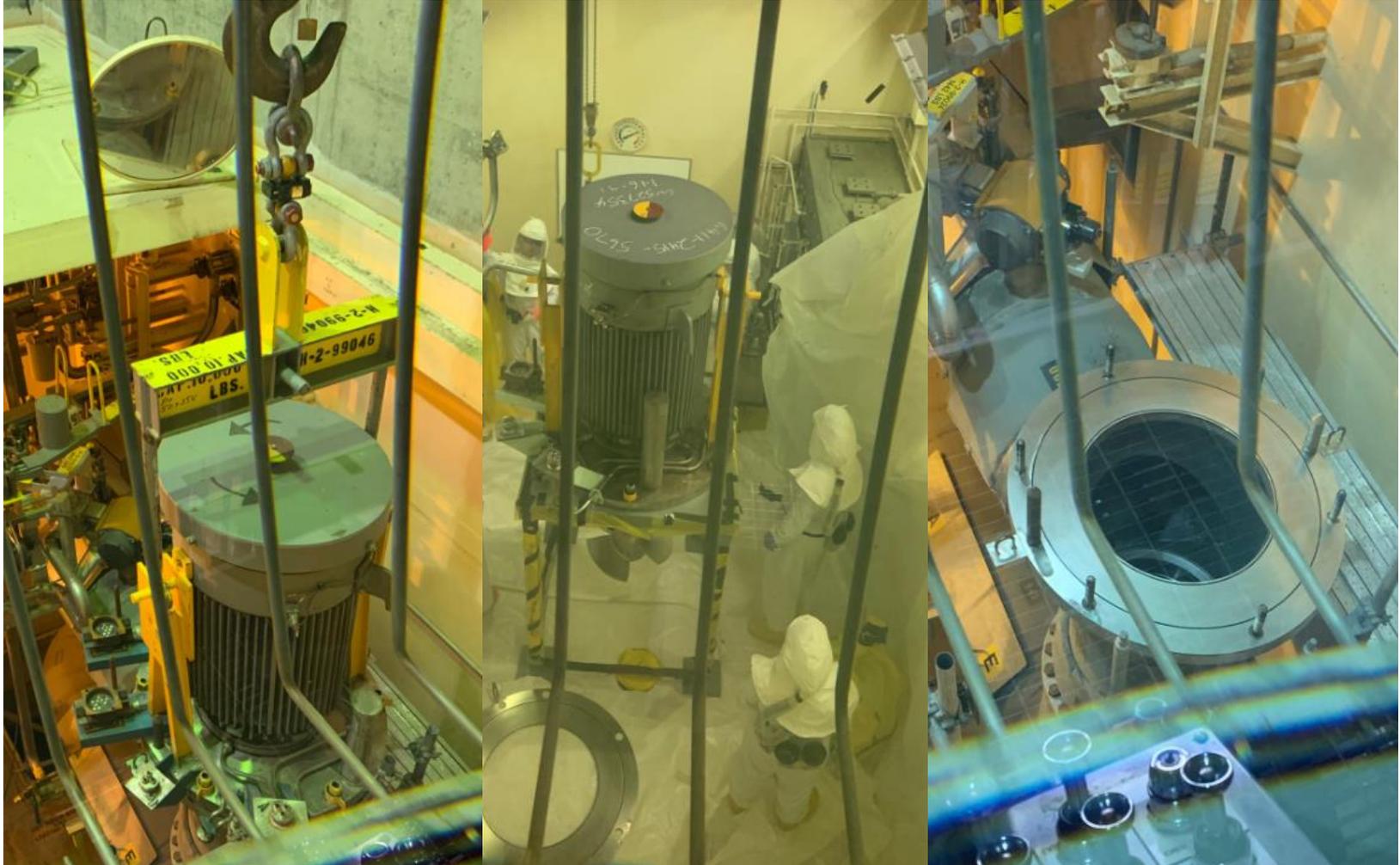


242-A Evaporator Facility

# New Reboiler Stored Onsite

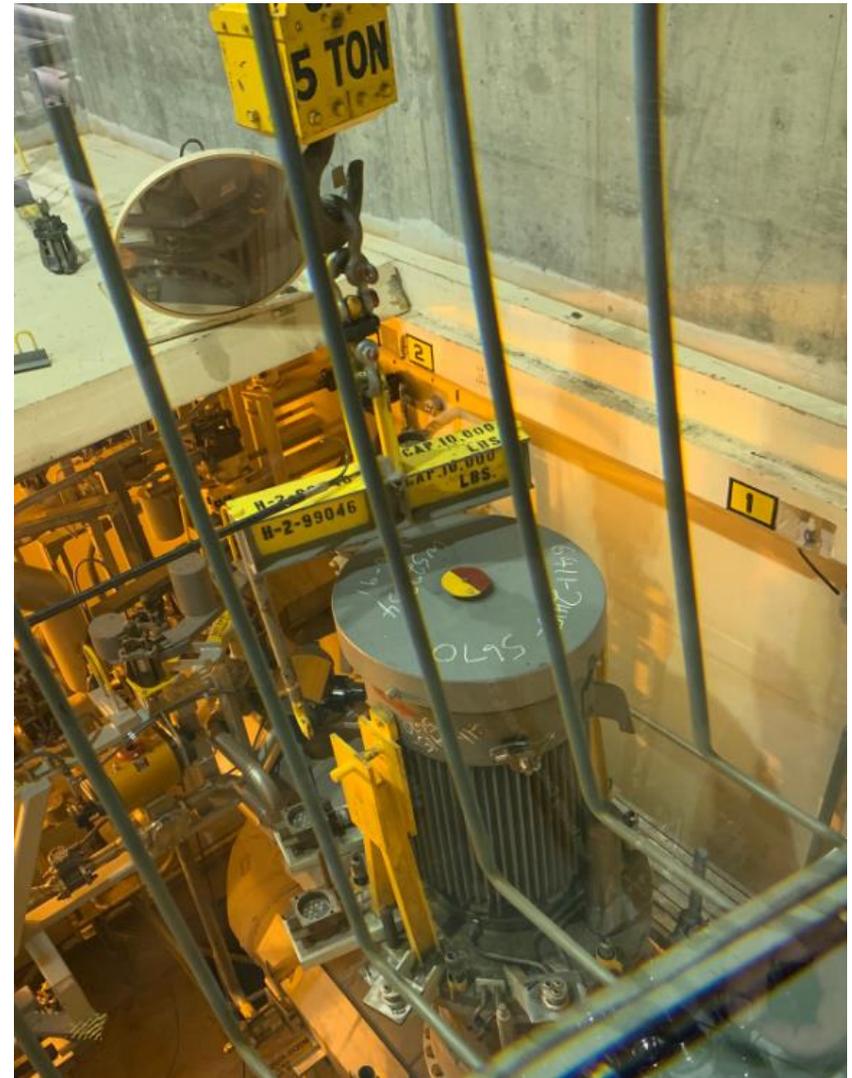


# Removed Old PB-1 and Installed Refurbished PB-1

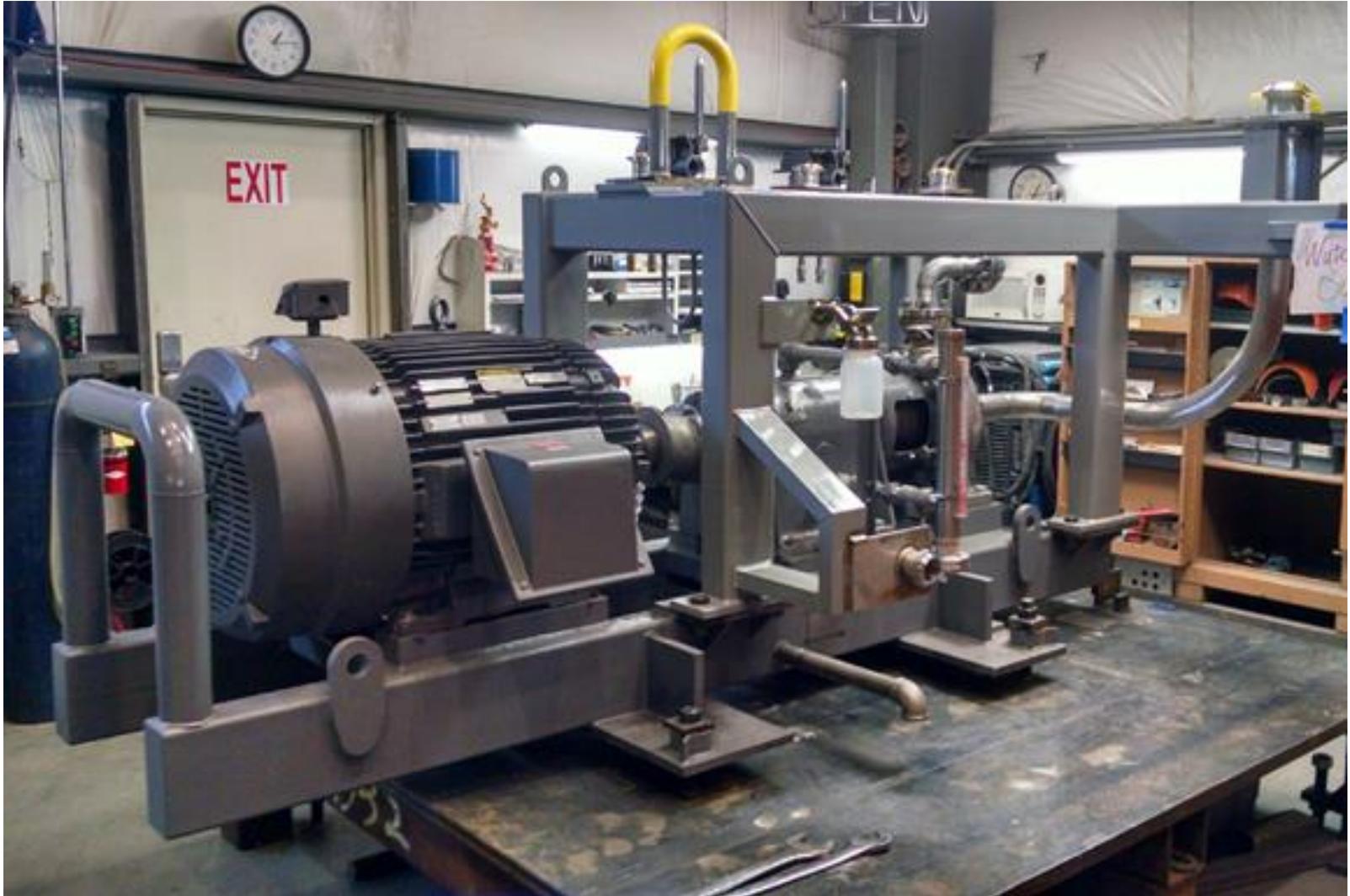


Removal of old PB-1

# Installation of Refurbished PB-1



# New PB-2 Pump at Vendor



# 242-A Transfer Line Replacement



Aerial view of transfer lines SL-167 and SL-168 going to the 242-A Evaporator pump room from AW Farm

# 242-A Air Dryer System





# Questions?

The Hanford Reach  
White Bluffs Overlooking the Columbia River