



OFFICE OF
RIVER PROTECTION
United States Department of Energy

Effluent Management Facility Permitting Update

Hanford Advisory Board
Tank Waste Committee

Presented by: **Jason Young, DOE-WTP Balance of Facilities Federal Project Director**

August 10, 2016



EMF provides 4 key services to support DFLAW

- Provides a low point drain for waste transfer line flushing
- Concentrates fluids containing low levels of radioactive material from the LAW off-gas treatment system using an evaporator
- Transports the condensate from the evaporator overheads to the off-site Effluent Treatment Facility via the existing transport piping
- Recycles the evaporator concentrate into the LAW vitrification process



Initial excavation and preparation activities for the Effluent Management Facility mudmat.



Dangerous Waste Permit requirements

1. Secondary Containment

- Permit will authorize construction of basemat, stem walls, low point drain, process walls
- Comment period: Nov. 28, 2016 – Jan. 27, 2017

2. Transfer Lines

- Permit will authorize installation of piping to transfer waste
- Comment period: Spring 2017

3. Processing Equipment

- Permit will authorize installation of the tanks and evaporator
- Comment period: Targeting Summer 2017

Timely submittal and approval of permits is key to staying on track to begin Direct-Feed Low Activity Waste treatment as soon as 2022





Permit Process/Public Involvement Opportunities

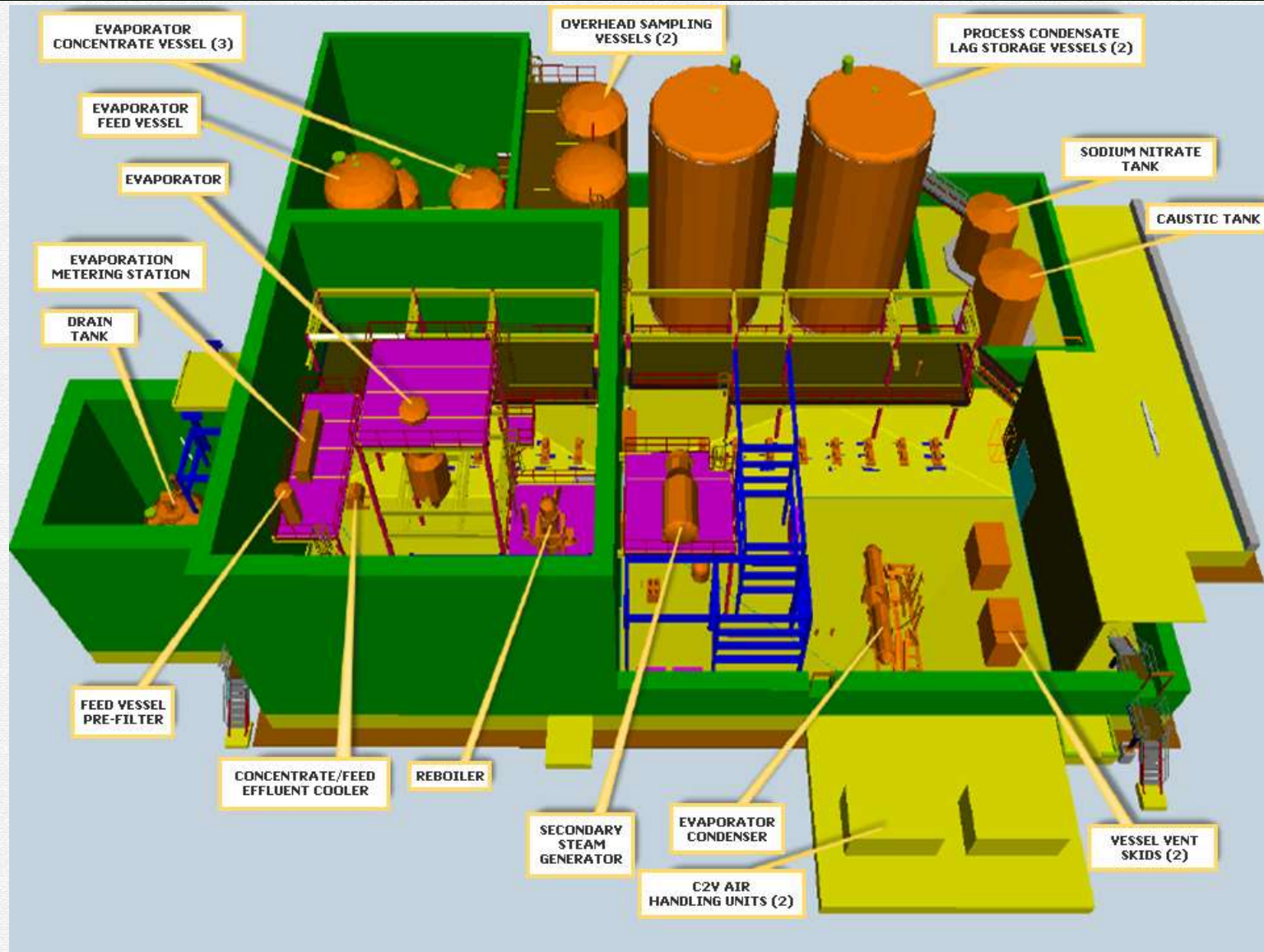
- First EMF comment period (secondary containment) expected to begin in September/October
- 60-day comment period will be first of 2 required by Class 3 modification (will include public meeting)
- State to hold 2nd comment period (45 days) before permit approval
- The agencies are looking for efficiencies in the permitting process



The EMF mudmat has been placed as a working surface for basemat placement following permit approval.



Effluent Management Facility





Questions?



The Hanford Reach
White Bluffs Overlooking the Columbia River

