



THE HANFORD SITE

Proposed Research, Development and Demonstration Permit in Support of the 2,000-gallon Test Bed Initiative Demonstration

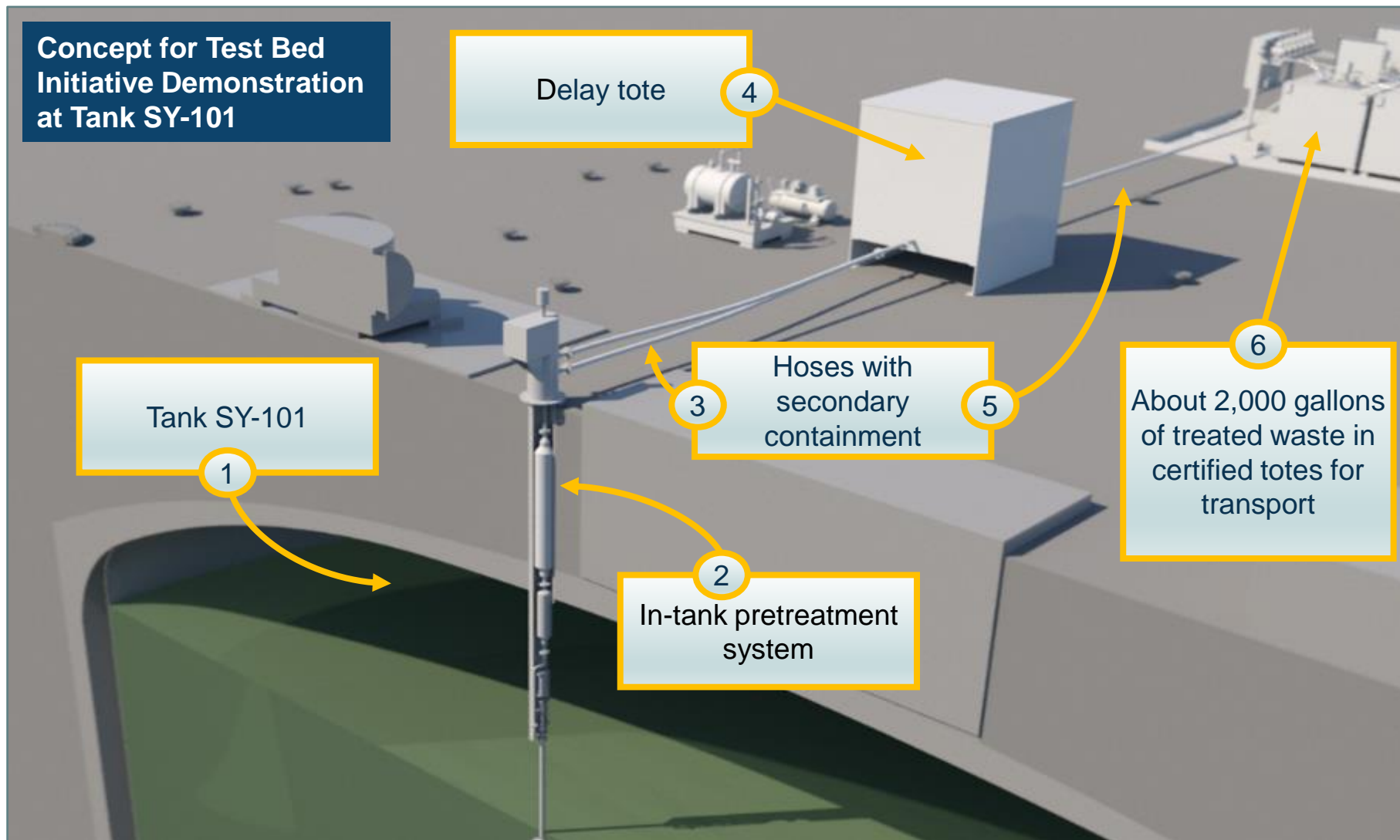
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Tank Waste Operations

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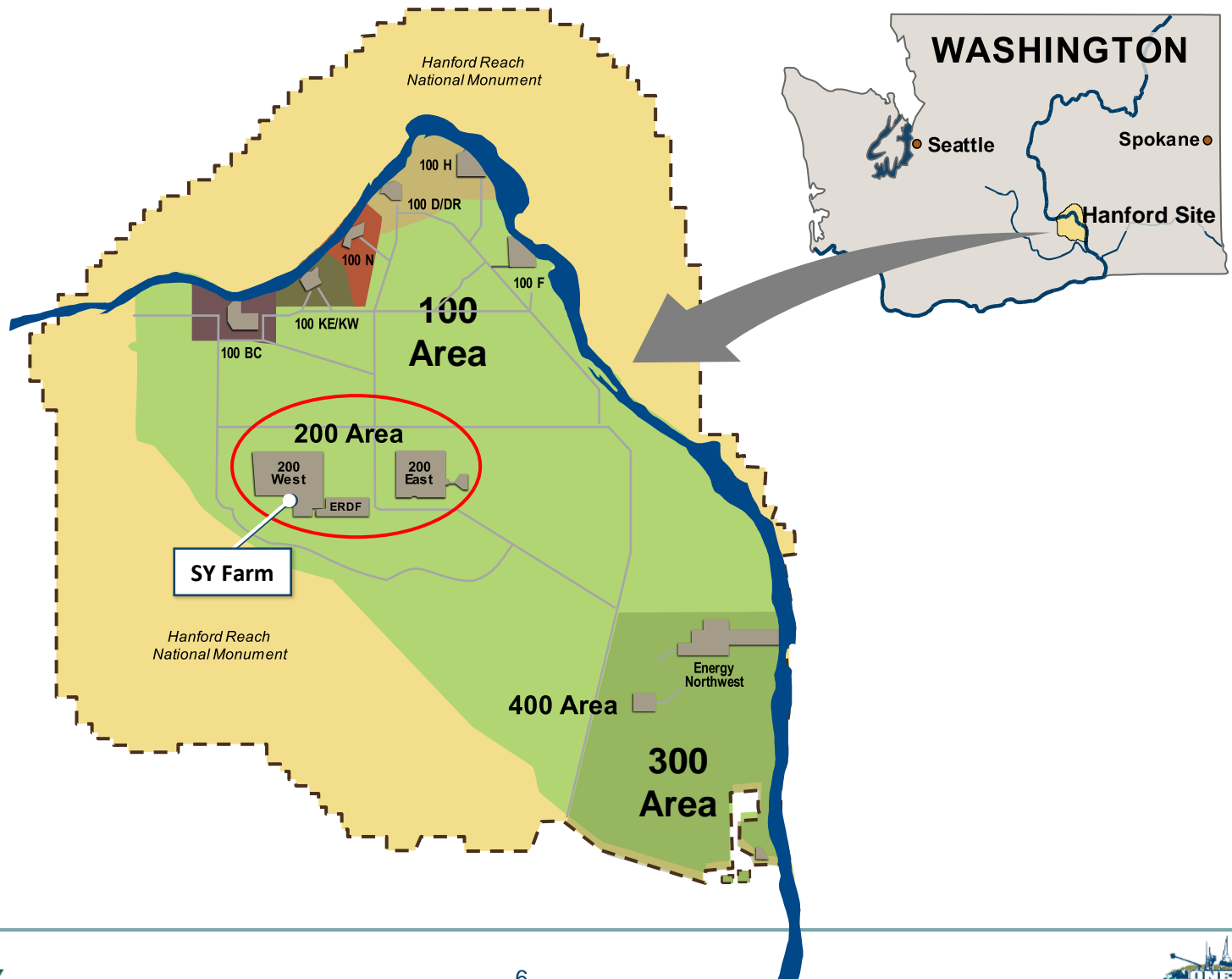
- Treating radioactive and chemical waste from Hanford's underground tanks is a high priority for U.S. Department of Energy (DOE)
- DOE continues to make progress toward the start of vitrifying (immobilizing in glass) some of Hanford's tank waste under the Direct-Feed Low-Activity Waste (DFLAW) Program
- In parallel with DFLAW, DOE is working with the Washington State Department of Ecology (Ecology) to consider additional options for safely and efficiently retrieving, treating and disposing of tank waste

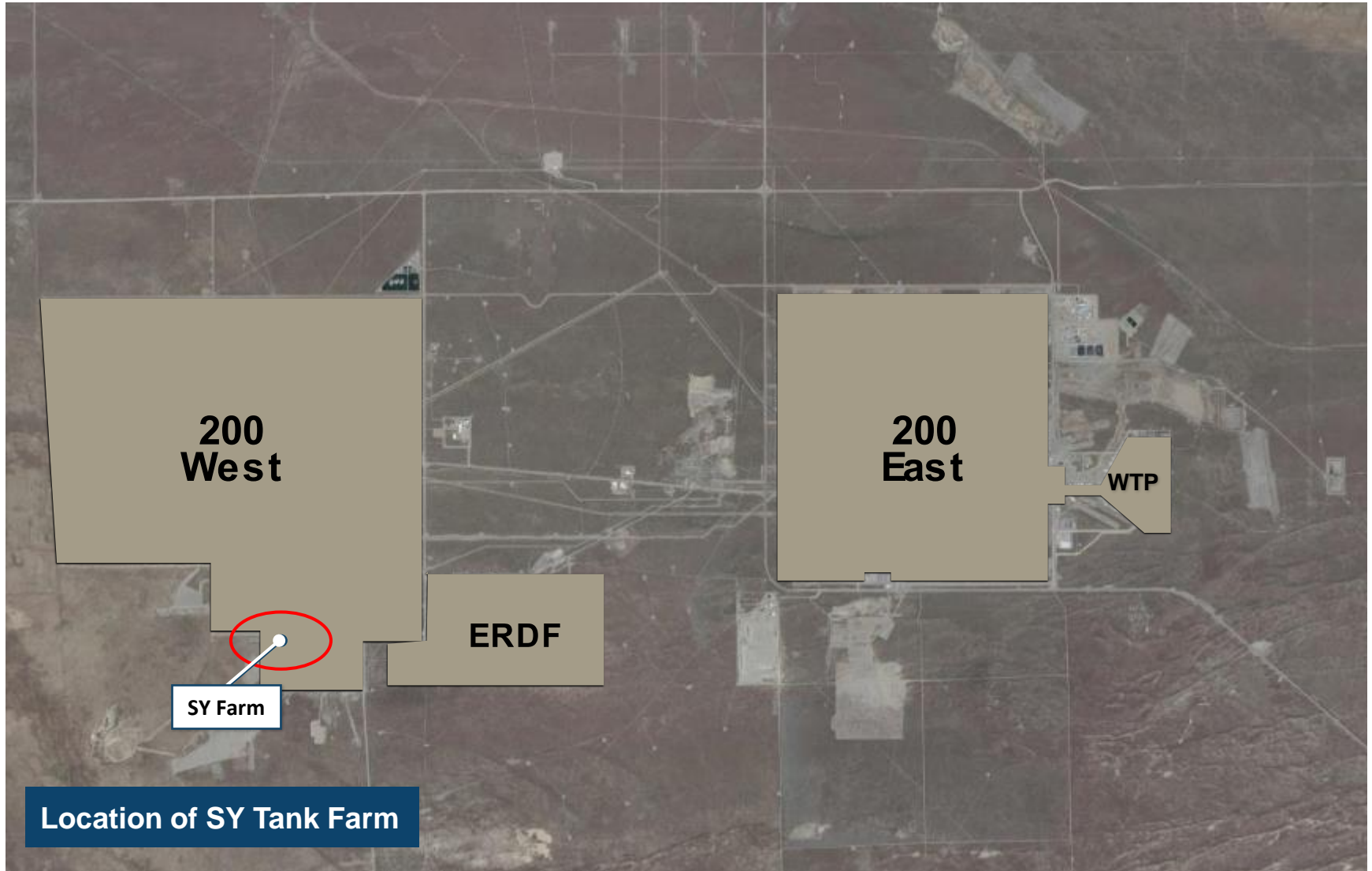
- The 2,000-gallon Test Bed Initiative (TBI) Demonstration proposes the use of a system to perform treatment activities within Tank SY-101 at the Hanford Site
- Laboratory results will be used to verify that 2,000 gallons of treated waste meet the waste acceptance criteria of the off-site receiving facilities in Utah and Texas for final stabilization treatment (grouting) and disposal

Concept for Test Bed Initiative Demonstration at Tank SY-101

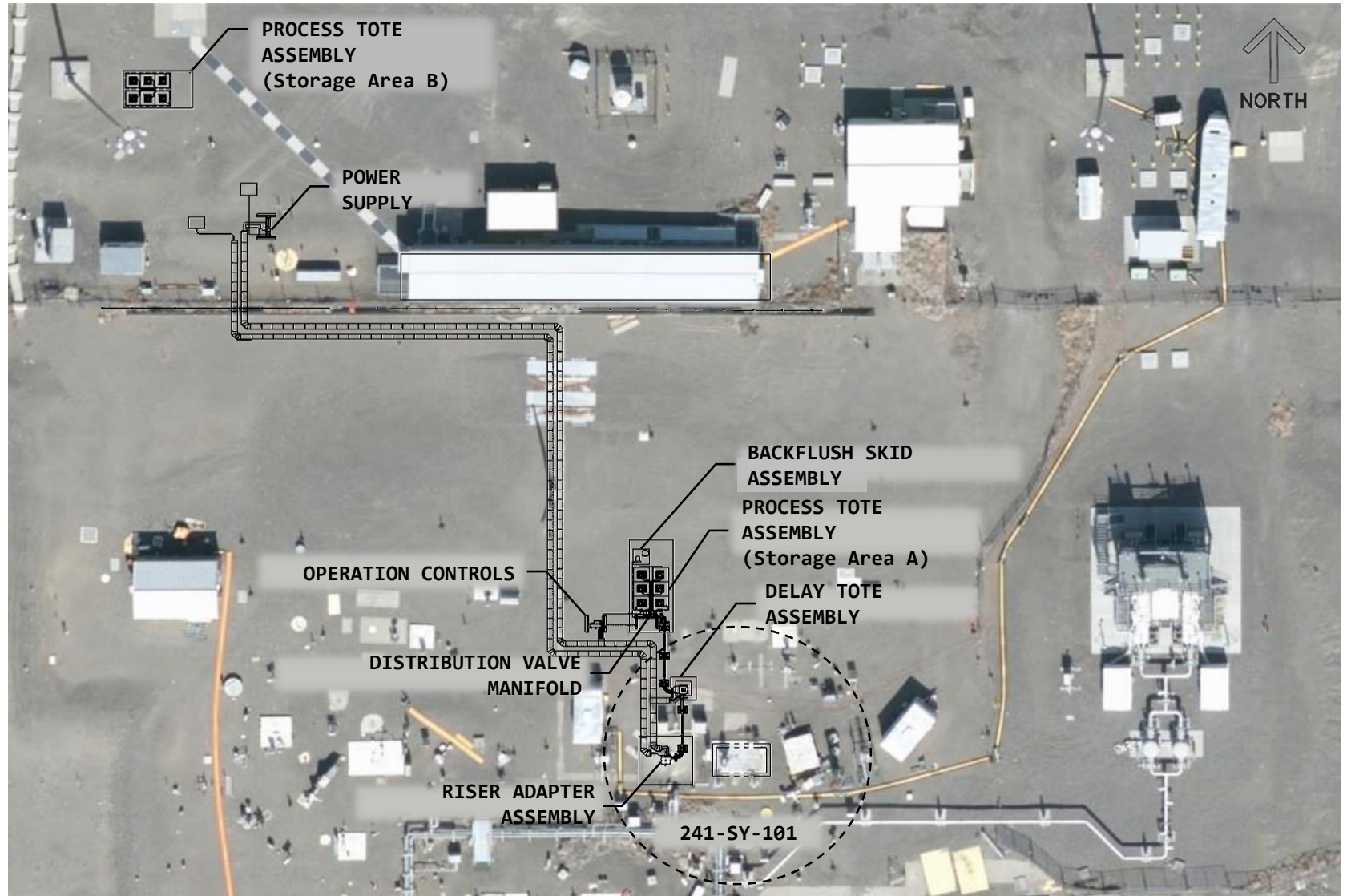


- Washington Administrative Code (WAC) 173-303-809, “Research, Development and Demonstration Permits,” allows Ecology to issue a Research, Development and Demonstration (RD&D) permit, “... which proposes to use an innovative and experimental dangerous waste treatment technology or process for which the permit standards for such experimental activity have not been promulgated...”
- The permittees (DOE and contractor Washington River Protection Solutions) have submitted an RD&D permit application to Ecology for the TBI Demonstration
- The scope of the RD&D permit is only applicable to waste management activities (pretreatment and storage) performed on the Hanford Site





SY Tank Farm Location



Proposed Research, Development and Demonstration Permit

DOE's proposed RD&D permit package includes:

- Permit application
 - Background
 - Facility and process description
 - Waste analysis plan
 - Inspection plan
 - Recordkeeping and reporting
 - Closure plan
- Data quality objective
- Sampling and analysis plan
- Design documentation

Refer to Ecology's nuclear waste comment period webpage for a full version of the proposed package

- The proposed RD&D permit was developed in accordance with the WAC requirements, as well as the U.S. Environmental Protection Agency guidance manual for RD&D permits
- The RD&D permit will terminate upon demonstrating closure in accordance with the closure plan