Reissue of the Hanford Facility Dangerous Waste Permit

commonly called the Hanford "site-wide permit")

Washington Department of Ecology Nuclear Waste Program



Ecology's job at Hanford



- Ensure that Hanford cleanup follows state and federal laws to protect human health and the environment
- In particular, protect the Columbia River
- Protect, preserve and enhance the state's air, land and water for current and future generations



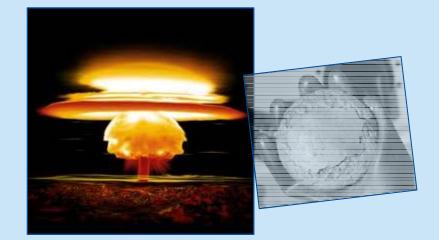






Background

- Hanford made plutonium for nuclear weapons 1944-87
- Hanford created millions of tons of waste
- Nation enacted most environmental laws in the 1970s
- Hanford regulation by the state begins in mid-1980's







Scope of the Hanford cleanup

- About 70 square miles of contaminated groundwater
- 56 million gallons of radioactive and chemical wastes in underground tanks
- Hundreds of contaminated buildings
- Hundreds of contaminated soil sites
- Millions of tons of contaminated soil





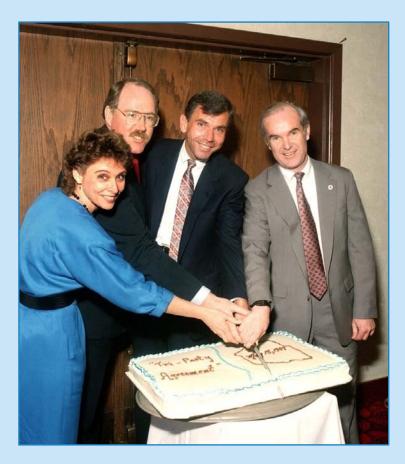
Federal environmental laws



- Atomic Energy Act (AEA) 1954 (Radionuclides)
- Resource Conservation and Recovery Act (RCRA)
 1976 (Hazardous Waste Management)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - 1980 -more commonly known as Superfund (Cleanup of hazardous and mixed waste)
- Federal Facilities Compliance Act 1992 (Waste treatment schedules and regulatory compliance for federal sites like Hanford)



Tri-Party Agreement

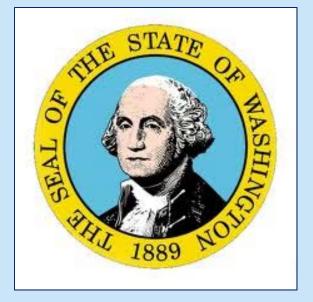


- Hanford Federal Facility Agreement and Consent Order (May 15, 1989)
- Provides enforceable schedules: to get Hanford into compliance with environmental laws – including permitting
- Defines USDOE, EPA, and Ecology coordination to clean up Hanford



How the state implements RCRA

- Hazardous Waste
 Management Act 1976
- Dangerous Waste Regulations
- State authorized to run its dangerous waste rules in lieu of federal program

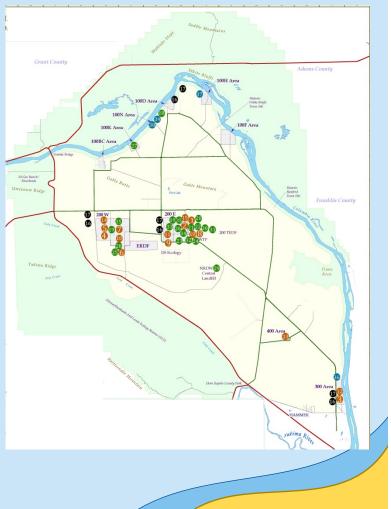


• Federal RCRA exempts strictly radioactive materials



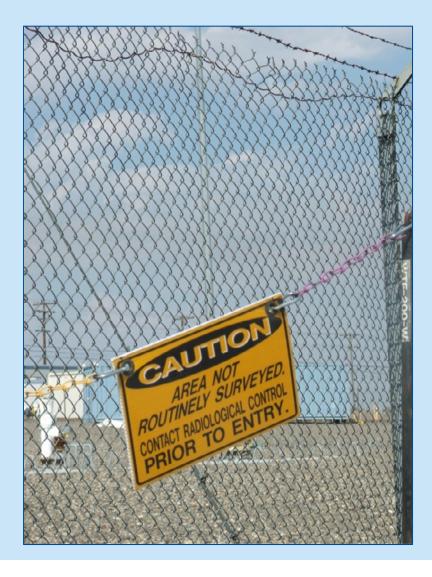
What the permit covers

- The entire Hanford Site ("Facility")
- Mixed wastes (both radioactive and chemically hazardous)
- 37 units for Treatment, Storage, and Disposal of dangerous (chemically hazardous) wastes
- 2 Corrective Action units (soil and groundwater cleanup sites)





What the permit does NOT cover



 Solely radioactive materials





How does the permit protect?

- Provides requirements for managing wastes safely from "cradle to grave"
- Ensures safe waste storage, treatment and disposal
- Provides criteria for knowing what waste you have and what waste you can accept
- Requires inspections



 Requires prompt emergency response, notifications, and cleanup

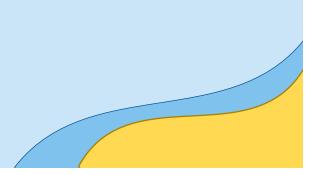


How does the permit protect? (Cont.)

- Sets requirements for cleanup of contamination
- Requires liners and groundwater monitoring for landfill disposal sites
- Prevents hazards, through measures such as keeping incompatible wastes separate
- Defines financial and criminal penalties for violations









Permit organization

- Part I General, standard conditions
- Part II Conditions applying to entire site
- Part III Conditions for operating units facilities that actively treat, store, or dispose of waste
- Part IV Conditions for corrective action units old waste disposal sites to be cleaned up
- Part V Conditions for closure units inactive sites to be investigated and "closed"
- Part VI Conditions for postclosure units closed sites with groundwater contamination





Offsite Waste – what's in, what's not

- The permit allows
 - Operating burial grounds
 - Navy Reactor compartments trench
 - Integrated Disposal Facility
 - Trenches 31& 34
 - Certain offsite wastes (from a court settlement)
 - Navy reactor compartments
 - Return of Hanford waste (mainly samples) sent offsite for treatment, analysis and testing
 - Hanford-related waste from the Pacific Northwest National Laboratory

- The permit does not include:
 - Mixed waste from other DOE sites





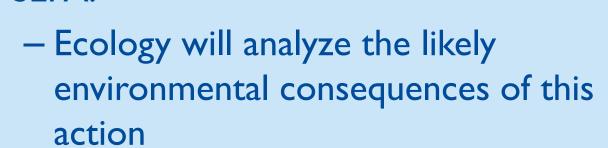
Process Improvements

- Ecology and EPA Developed Guidance
 - -Clarified what RCRA and state regulations require for each part of the permit
 - -Used to measure whether DOE permit documents meet the criteria
 - -Work through specific RCRA conditions with DOE
- Established joint permit team and process guidance for quick issue resolution



The Permit is Subject to SEPA

- SEPA is a state policy that requires state and local agencies to consider the likely environmental consequences of a proposal before approving or denying the proposal.
- Ecology issuing the draft Hanford permit is an action* subject to the requirements of SEPA.





*RCW 43.21C.030(2)(c) and WAC 197-11-704



The permit is a living document

- Reissue: required every 10 years (old permit is in force during reissue)
- Modified: many times over the past 18 years
 - To add units (other parts of Hanford)
 - To remove units that are cleaned up





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