

WM '07 LLW Disposal Session 21



US Ecology
an American Ecology company

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LLRW Disposal Capabilities



- Class A, B & C Low-Level Radioactive Waste
 - Northwest compact
 - Rocky Mountain compact
- Avg \$111 / cubic foot
- DOE waste from within Compact footprint



NARM Disposal Capabilities



- NORM/NARM from all 50 states & overseas military bases
- High activity radium



US Ecology Idaho

- RCRA & TSCA waste disposal site
- Also disposes NORM and exempt wastes



Idaho Radioactive Waste Acceptance Criteria



- ❑ **All isotopes <2000 pCi/gm total activity**
- ❑ **Radium up to 222 pCi/g**
- ❑ **Uranium & thorium < 0.05% by weight**
- ❑ **Accelerator produced radioactive material meeting U.S. transportation limits**
- ❑ **Various devices, items, source & byproduct material**
- ❑ **Fission & activation products < 25 pCi/g each**
- ❑ **Mixed hazardous / radioactive waste**

See Tables 1-4 of Idaho Waste Acceptance Criteria

NRC Exempt Material



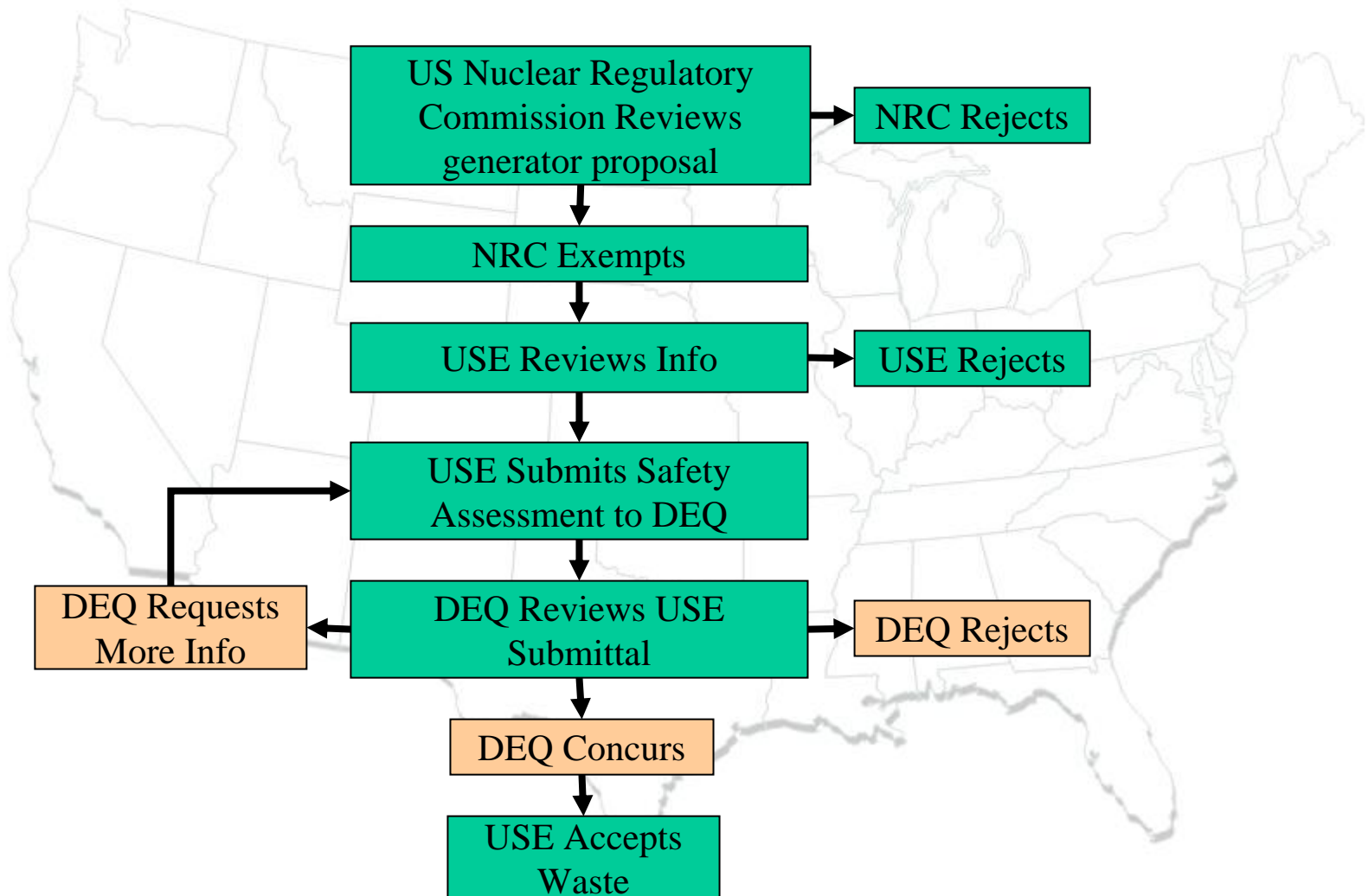
■ **Generally exempt**

- ◆ **Consumer products and devices, e.g. smoke detectors, lightning rods, luminescent gauges or timepieces, electron tubes, aircraft counterweights, night scopes, marine compasses, thermostat dials, calibration sources, spark gap irradiators, lantern mantles, vacuum tubes, welding rods, electric lamps, Fiesta-ware, tungsten or magnesium-thorium alloy aircraft or other parts, certain optical lenses**

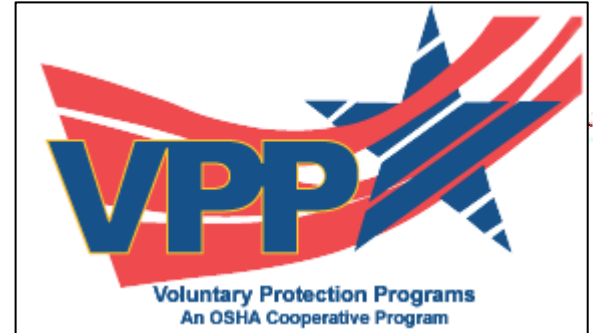
■ **Specifically exempt**

- ◆ **Bulk soil & debris**
- ◆ **Mixed waste from a steel mill source melt**

Idaho Specific Exemption Process



US Ecology Texas



- RCRA & TSCA waste disposal site
- Also disposes NORM and exempt wastes



Texas Radioactive Waste Acceptance Criteria



- ❑ **All isotopes <150 pCi/gm total activity**
- ❑ **Radium <30 pCi/g**
- ❑ **Uranium & thorium < 0.05% by weight**
- ❑ **Byproduct material with TDH approval**
- ❑ **Accelerator material: Texas generators subject to 300-day half-life**
- ❑ **Fission & activation products with TDH approval**
- ❑ **Generally exempt items & devices**
- ❑ **Mixed hazardous / radioactive waste**

Transportation & Onsite Services



- Turnkey onsite packaging & transport services
- Fleet of 600+ gondola & hopper cars
- Move waste by rail, truck, barge or ship



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