



# OREGON MILITARY DEPARTMENT

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Joint Senate and House Veterans and Emergency  
Preparedness

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Deputy Director



# What is an Indoor Firing Range (IFR)?



Baker City IFR



Kliever Armory IFR



Former Roseburg IFR After  
Abatement & Conversion



# Outdoor Firing Range Locations



★ Unit Training Areas    ★ Air Guard Installations    ● Army Guard Installations    ▲ Logistics Site



# Oregon IFR's by the Numbers

10  
Sealed  
&  
Closed

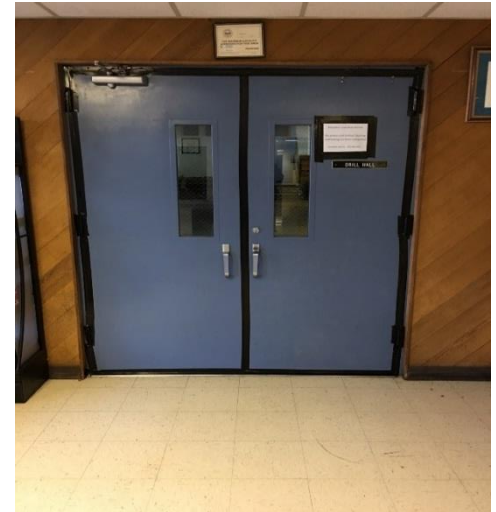
39  
Armories  
with  
IFR's

19  
Previously  
Converted



Sealed IFR Vent

10  
Armories  
with other  
owners



Sealed Access to Drill Hall in  
McMinnville





# How We Got Here

- War Effort Focus – Post 9/11
- Use of ranges reinforcing weapons skills
- Stay behind personnel supporting families
- Attrition and short full time Soldier manning
- Federal facilities funds were increasing
- State facilities funding struggled to match
- Mistakes were made
  - Inconsistent monitoring of IFR's
  - Lack of follow up with IFR Custodians





# What is Lead and Where is it Found?





# Regulatory Thresholds



Agency	Matrix	Threshold	Unit of Measure	Facility Type	Applicability
U.S. EPA	Lead Dust	40	$\mu\text{g}/\text{ft}^2$	Child-Occupied	Floors
	Lead Dust	250	$\mu\text{g}/\text{ft}^2$		Window Sills
U.S. HUD	Lead Dust	40	$\mu\text{g}/\text{ft}^2$	Residential	Floors
	Lead Dust	250	$\mu\text{g}/\text{ft}^2$		Window Sills
	Lead Dust	400	$\mu\text{g}/\text{ft}^2$		Window Troughs
U.S. OSHA	Lead Dust	200	$\mu\text{g}/\text{ft}^2$	Occupational	Flat Surfaces (lunchrooms, change rooms)
	Air	50	$\mu\text{g}/\text{m}^3$		8-Hour Time Weighted Average
	Blood-Lead	40	$\mu\text{g}/\text{dL}$		Occupational (Soldiers/Civilians)
National Guard Bureau	Lead Dust	40	$\mu\text{g}/\text{ft}^2$	Armory	All Publicly Accessible Areas in Armories
	Lead Dust	200	$\mu\text{g}/\text{ft}^2$		Soldiers and Civilian Employees
	Air	50	$\mu\text{g}/\text{m}^3$		8-Hour Time Weighted Average

Oregon Health Authority adopted EPA 40 CFR

<https://public.health.oregon.gov/HealthyEnvironments/HealthyNeighborhoods/LeadPoisoning/Pages/Lead-BasedPaintRegulations.aspx>



# Laboratory Monitoring

Facilities  
42

← Lead Testing →

Soldiers

2015 = 173

2016 = 176

State Cleaning Crew

2015 = 7

2016 = 7



No result above 7ug/dL

Action level U.S. OSHA 40 ug/dL



Oregon Military Department Armory Lead Evaluation Results by Site:

<http://www.oregon.gov/OMD/AGI/pages/indoor-firing-range-lead-testing.aspx>





# Actions in Progress

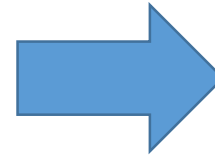
- Ongoing Monitoring of All Armories
- OMD webpage (results & access)
- Implemented Weapons Cleaning Changes
- Completion of Abatement and Conversion Projects



# Project Cost

Anderson Readiness Center  
Lane County AFRC  
Kliever Armory  
Ashland Armory  
Ontario Armory  
Bend Readiness Center  
Baker City Armory  
Pendleton Armory  
Coos Bay Armory  
McMinnville Armory

Abatement  
\$21.3M  
is 100%  
Federal  
Share



Follow-on  
Conversion  
\$2.6M  
is 50/50 State  
& Federal  
Share

Re-directing FFY17 allocated construction funding to abate Anderson Readiness Center, Lane County AFRC, Baker City and Ontario this year.



# Questions?