

# U.S. Department Of Energy Former Worker Medical Screening Program: An Overview



## FWP Webinar Series

Wednesday, October 12, 2022  
2:00 p.m. (ET)

We will start promptly at the top of the hour.  
The webinar is being recorded.

<https://www.energy.gov/ehss/former-worker-medical-screening-program-0>

# U.S. Department Of Energy Former Worker Medical Screening Program: An Overview



## **PANELIST**

Trish Quinn, Moderator

Greg Lewis, Office of Worker Screening and Compensation Support, Office of Environment, Health, Safety, and Security, DOE

Nickie Warren, Pantex FWP

Dr. Aisha Rivera Margarin, JHU FWP for Los Alamos and Sandia

Jill Welch, Burlington AEC Plant and Ames Lab FWP

Zachary Busse, Worker Health Protection Program

Kim Cranford, Building Trades National Medical Screening Program

Wendy Benade, National Supplemental Screening Program



# Department of Energy Former Worker Medical Screening Program

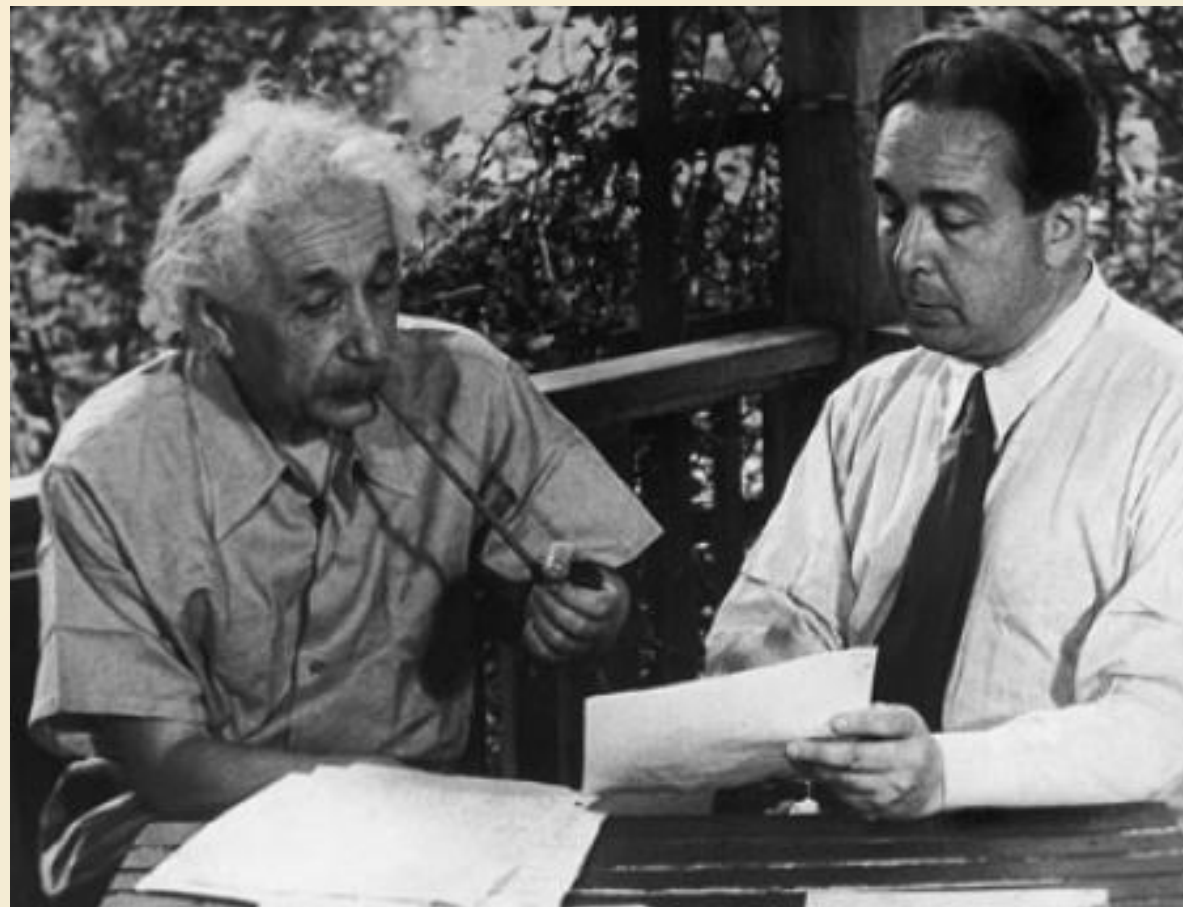


Office of Environment, Health, Safety and Security

October 2022



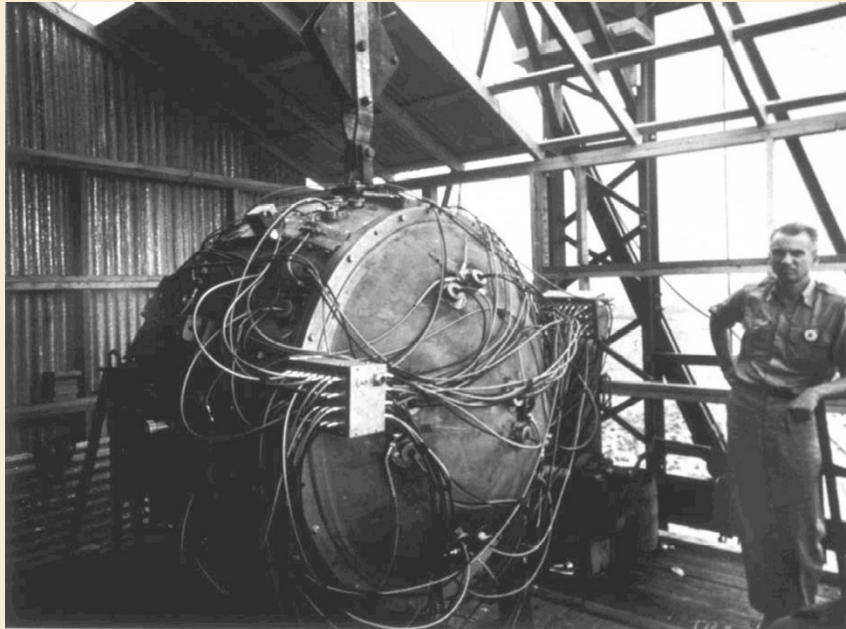
# DOE History



Albert Einstein and Leo Szilard – 1939 Letter



# DOE History



"The Gadget"



Trinity Test



# DOE History



## Broad mission

- Production facilities - producing feedstock, making parts and performing assembly and maintenance of weapons
- Nuclear weapons research labs
- Nuclear weapons testing
- Nuclear energy research
- Cleanup and closure
- Science Labs
- Other (clean energy research, strategic petroleum reserve, etc.)



# DOE History



High Vacuum System – Brookhaven National Laboratory



# DOE History



Oak Ridge Gaseous Diffusion Plant – Machine Shop





# DOE History



Rio Blanco Nuclear Test



# DOE History



Hanford Site Construction



# DOE History



Hanford Tank Farms



# DOE History



**Historically, potential hazards include but are not limited to:**

- Ionizing radiation
  - Uranium
  - Plutonium
  - Thorium
  - Others
- Beryllium
- Asbestos
- Silica
- Solvents
- Chromium
- Lead
- Methyl Ethyl Ketone
- Trichloroethylene
- Ethyl Benzene
- Carbon Tetrachloride
- Mercury
- Welding



## *Former Worker Program (FWP)*



- Established following the issuance of the Fiscal Year 1993 Defense Authorization Act (P.L. 102-484), authorizing DOE to:

“...establish and carry out a program for the identification and on-going medical evaluation of...former DOE employees who are subject to significant health risks as a result of the exposure of such employees to hazardous or radioactive substances during such employment...”

- First former worker projects were initiated in 1996.
- Program serves ***all*** former workers from ***all*** DOE sites in locations close to their residence.



## *FWP Mission*



- Identify and notify former workers at risk for occupational disease.
- Offer them medical screening that can lead to treatment.
- Provide information and assistance about medical follow-up and compensation.
- Use findings to strengthen safety and health protection for current and future workers.



# FWP Scope



- Approximately 1 million former workers potentially eligible
  - Majority are contractor and subcontractor workers (not Federal employees)
  - Many are not career employees
  - Subcontractors (layers)
  - Construction trades workers
  - Guards, maintenance, other support staff
  - May have been on and off the site multiple times



# FWP Scope



Two types of screening:

- Conventional Medical screening
  - Initial exam
  - Follow up exam (eligible every 3 years)
- Early Lung Cancer Detection Program
  - Low-dose helical computed tomography (CT) scans to screen for lung cancer
  - Offered only to workers at high risk





# FWP Scope

The components of the screening examination are based on an individual's work and exposure history and may include:

- Physical exam
- Chest x-ray with B read
- Spirometry
- Audiometry
- Basic blood work
- Urinalysis
- Specialized blood and urine tests for certain at-risk individuals
  - Beryllium Lymphocyte Proliferation Test



## *FWP Scope*

- DOE uses independent occupational medicine experts from universities, labor unions, and commercial organizations to administer the medical screening program and ensure an objective evaluation of the health of former DOE workers
- Screenings are provided by six cooperative agreement holders (third party providers)
- Screenings are provided at clinics in communities near DOE sites. Nationwide network of clinics allows services to be provided near most workers' residences.



# ***FWP Cooperative Agreement Holders***

1. **Pantex Former Worker Program, conducted by The University of Texas at Tyler Health Science Center:**
  - Workers from *Pantex Plant (Texas)*
2. **Johns Hopkins University Bloomberg School of Public Health**
  - Workers from *Los Alamos National Lab and Sandia National Lab (New Mexico)*
3. **University of Iowa College of Public Health**
  - Workers from *Ames Lab and Iowa Army Ammunition Plant (Iowa)*
4. **Worker Health Protection Program (WHPP)**
  - Conducted by Queens College City University of New York
  - Workers from *13 DOE sites*



# *FWP Cooperative Agreement Holders*

## **5. Building Trades National Medical Screening Program (BTMed):**

- Conducted by CPWR - The Center for Construction Research and Training
- Construction/building trades workers only, from **35 DOE sites**

## **6. National Supplemental Screening Program (NSSP):**

- Conducted by Oak Ridge Associated Universities
- Workers from **8 DOE sites** nationwide
- All workers from:
  - sites not covered by regional projects
  - no longer live near the regional screening clinics



# FWP Numbers

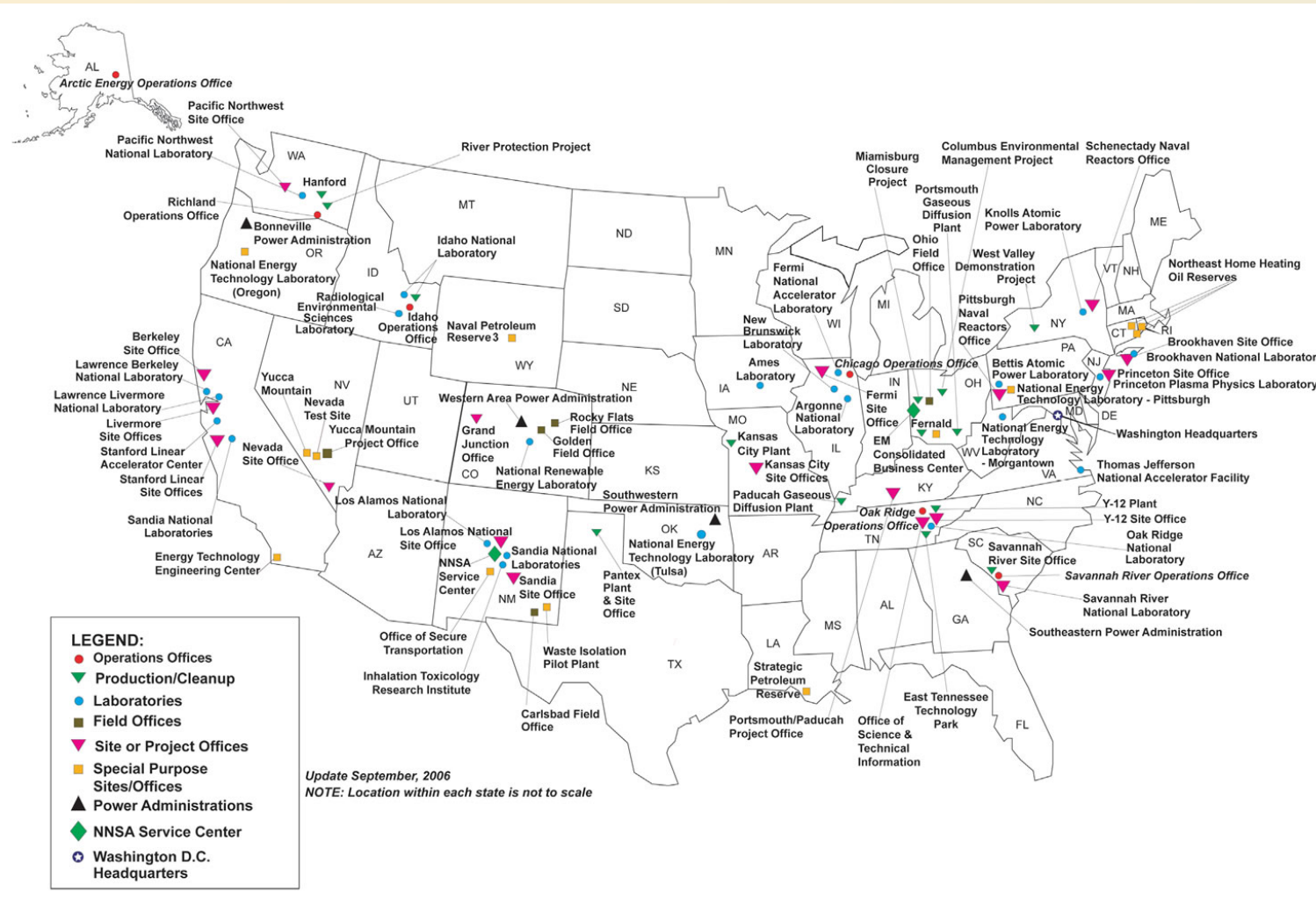


The Former Worker Program has provided a total of

- 161,026 conventional medical screening exams (initial and re-screen exams) to 96,384 former workers
- 64,241 baseline, follow-up, and annual low-dose CT scans for occupational lung cancer to 15,651 participants



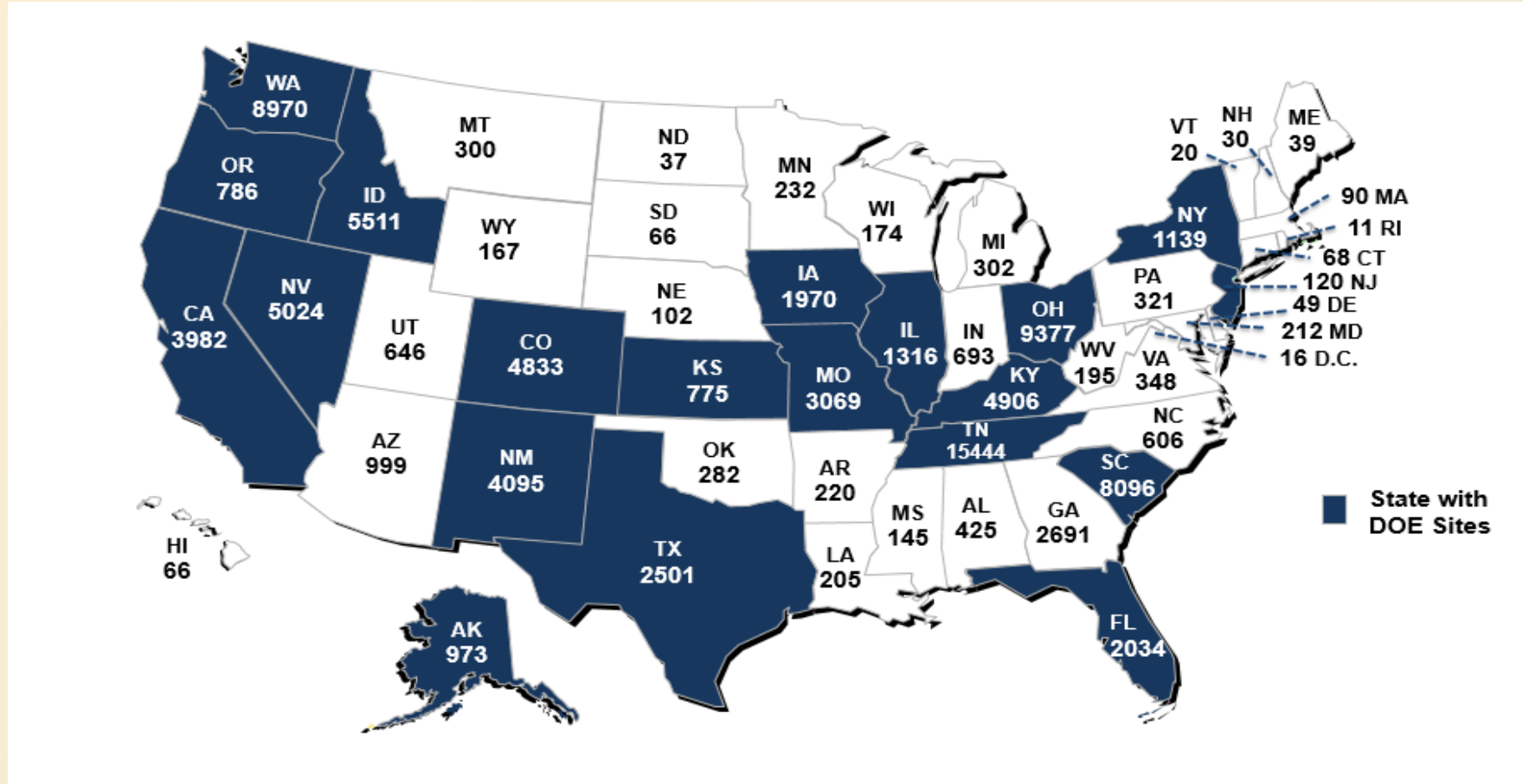
# DOE History





# FWP Numbers

Participants Screened by State of Residence





# *Resources for FWP Information*

- FWP website:

<https://www.energy.gov/ehss/former-worker-medical-screening-program-0>

- FWP findings:

Under the “Medical Screening Exam Findings”  
tap on the FWP website





# FWP Findings

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Former Worker Medical Screening Program | Department of Energy

**Table 4. Initial Spirometry Screening Findings by State/Site (1997 through September 2021)**

State	Sites <sup>DAG</sup>	Exams Conducted	Obstructive Airways Dysfunction Cases Detected	
AK	Amchitka Island Test Site	1,130	177	15.7%
CA	Lawrence Berkeley NL	498	50	10.0%
CA	Lawrence Livermore NL	2,251	264	11.7%
CA	Sandia NL, CA	188	16	8.5%
CO	Rocky Flats Plant - Construction Workers	925	223	24.1%
CO	Rocky Flats Plant - Production Workers	4,316	932	21.6%
FL	Pinellas Plant - Production Workers	767	188	24.5%
IA	Ames Laboratory	2,161	231	10.7%
IA	Iowa Army Ammunition Plant	1,358	272	20.0%
ID	Idaho NL - Construction Workers	1,153	248	21.5%
ID	Idaho NL - Production Workers	5,384	643	11.9%
IL	Argonne NL	769	73	9.5%
IL	Fermi National Accelerator Lab	183	13	7.1%
KY	Paducah GDP - Construction Workers	1,031	243	23.6%

<https://www.energy.gov/ehss/former-worker-medical-screening-program-0>

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# DOE History



Hanford B Reactor

# Pantex Former Worker Medical Surveillance Program

## Who we are

- Managed by:
  - The University of Texas Tyler  
Health Science Center, Tyler TX
- Consultant (*and former PI*):
  - Arthur L. Frank, MD, PhD  
Drexel University  
Dornsife School of Public Health  
Philadelphia, PA
- Screening Exams in Amarillo:
  - Angela Phillips, DNP, APRN, FNP-BC  
West Texas A&M University  
Canyon, TX

## Key UT program staff

PI: C. David Rowlett, MD, MS, FACOEM



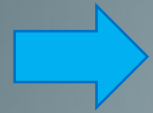
Co-PI: Cynthia K. Ball, DO, MS, FACOEM



Coordinator/Manager: Nickie B. Warren

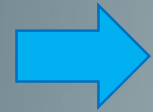
# Pantex Former Worker Medical Surveillance Program

## We serve DOE former workers who:



worked at the following DOE Site:

Pantex Plant/Facility in Amarillo, Texas



and currently live:

Any distance from the above DOE work site  
Over 100 miles from Amarillo – offer referral to NSSP for location closer to home



and worked in:

Production, operations, administration, or any on-site role, to include contracted work onsite.

## What we've done:

Former workers screened:

1,326

Exams performed:

2,193

## Pantex Former Worker Medical Surveillance Program

### For more information or to enroll:

- Call us at 1-806-378-8939
- Call us toll-free at 1-888-378-8939
- Email: [PantexFormerWorkers@uthct.edu](mailto:PantexFormerWorkers@uthct.edu)

# Johns Hopkins Former Workers Program For Los Alamos and Sandia National Laboratories

## Who we are

- Managed by Johns Hopkins School of Public Health
- Our partners: University of New Mexico
- Screening clinics: Until 2020, model involved visits 2-3x year where we did exam swoops. Currently, as a result of COVID-19 exams are being done through a clinic in Santa Fe, NM

## Key program staff

Johns Hopkins School of Public Health (Baltimore, MD)



Dr. Brian Schwartz  
Co-principal Investigator



Dr. Aisha Rivera Margarin  
Co-principal Investigator

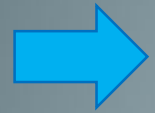
- Heidi Curriero, Administrative Assistant

### **Española Program Office (Española, New Mexico):**

- Rebecca Trujillo, Interviewer; Former LANL Worker
- Joslyn Cordova, Administrative Assistant

# Johns Hopkins Former Workers Program For Los Alamos and Sandia National Laboratories

## We serve DOE former workers who:



worked at one or more of the following DOE Sites:

Los Alamos National Laboratories  
Sandia National Laboratories (Albuquerque, NM)



**and** currently live:

New Mexico



**and** worked in:

Open to former workers of the DOE sites we serve

## What we've done:

Former workers screened (initial screens):

3,850 (SNL- 388, LANL- 3,462)

Exams performed:

4,605 (SNL- 444, LANL- 4,161)

# Johns Hopkins Former Workers Program For Los Alamos and Sandia National Laboratories

## For more information or to enroll:

- Call us at 1-877-500-8615 (toll free) or 505-753-0193 (local)
- Visit us online at <https://www.jhsph.edu/research/affiliated-programs/medical-exam-program-for-former-workers-at-los-alamos-national-laboratory/>
- Email: [lanlfwms@jhsph.edu](mailto:lanlfwms@jhsph.edu)



# Burlington AEC Plant (BAECP) & Ames Laboratory - FWP

## Who we are

- University of Iowa College of Public Health
- 4 Screening Clinics in Iowa:
  - McFarland Clinic, Ames
  - Machinists Union Hall, West Burlington
    - Great River Medical Center
  - Henry County Health Center, Mt. Pleasant
  - BioVentures Center, Coralville
    - UI Occupational Health
- Live 2+ hours away from the screening clinics are referred to NSSP

## Key program staff

- Dr. Marek Mikulski



Director  
Principal Investigator

- Dr. Lar Fuortes






Professor Emeritus  
Physician

- Jill Welch, Project Coordinator
- Valentina Clotey, Medical Screenings & Results
- Christina Nichols, Medical Screenings & EEOICPA claims
- Nick Hoeger, Recruitment & Scheduling

# Burlington AEC Plant (BAECP) & Ames Laboratory - FWP

## We serve DOE former workers who:

	worked at the following DOE Sites:	<ul style="list-style-type: none"><li>- Line I/Division B/Burlington AEC Plant at the Iowa Army Ammunition Plant (IAAP) in West Burlington, IA from 1949-1975</li><li>- Ames Laboratory in Ames, IA</li></ul>
	<u>and</u> currently live:	In the United States
	<u>and</u> worked in:	All job categories

## What we've done:

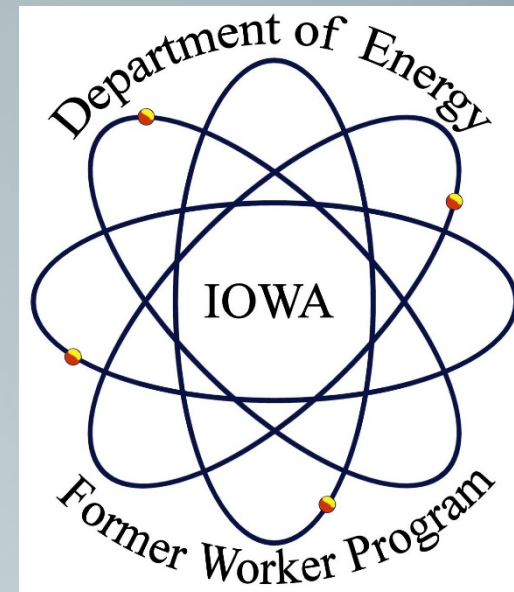
BAECP & Ames Laboratory former workers screened: 3,663

Exams performed: 8,268

# Burlington AEC Plant (BAECP) & Ames Laboratory - FWP

## For more information:

- Call us **toll-free at 1-866-282-5818** or **direct at 319-335-8495**
- Visit us online at [www.iowafwp.org](http://www.iowafwp.org)
- Email [oeH-iowafwp@uiowa.edu](mailto:oeH-iowafwp@uiowa.edu)



# Worker Health Protection Program (WHPP)

## Who we are

- Managed by Barry Commoner Center for Health and the Environment, Queens College, City University of New York (CUNY)
- Our partners:
  - United Steel Workers (USW)
  - Atomic Trades and Labor Council (ATLC)
- Screening clinics:
  - Netgain (Oak Ridge, TN)
  - Machen Family Medicine (Idaho Falls, ID)
  - UNLV School of Medicine (Las Vegas, NV)
  - More in CA, KY, NY, OH, & TN

## Key program staff

Dr. Steven Markowitz, MD, DrPH


- Principal Investigator & Project Director since 1997
- Chair of DOL Advisory Board on Toxic Substances and Worker Health



Local Coordinators

# Worker Health Protection Program (WHPP)

## We serve DOE former workers who

 worked at one or more of the following DOE Sites:

- Lawrence Berkeley, Lawrence Livermore, and Sandia National Labs (CA)
- Idaho National Laboratory (ID)
- Paducah Gaseous Diffusion Plant (KY)
- Waste Isolation Pilot Plant (NM)
- Nevada National Security Site (NV)
- Brookhaven National Laboratory (NY)
- Fernald Feed Materials Production Center (OH)
- Mound Plant (OH)
- Portsmouth Gaseous Diffusion Plant (OH)
- Oak Ridge Gaseous Diffusion Plant (TN)
- Oak Ridge National Laboratory (TN)
- Y-12 National Security Complex (TN)

 **and** currently live:

In the vicinity of above sites (CA, ID, KY, NV, NY, OH, or TN)

 **and** worked:

- 30 days in non-building trades (GDP sites screen current workers as well)
- One year in any trade for Nevada and California Labs

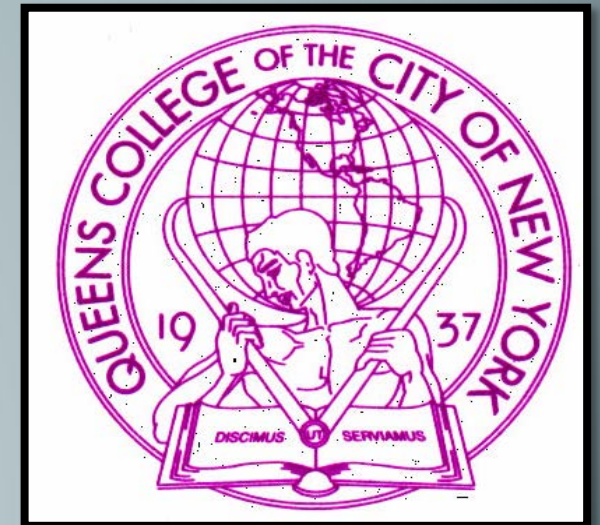
## What we've done:

Former workers screened: 35,119 # of people screened for lung cancer: 13,875  
Exams (including re-screens): 73,285 # of low-dose CT scans completed: 57,306

# Worker Health Protection Program (WHPP)

## For more information or to enroll:

- Call us at 1-888-241-1199
- Website: <http://www.worker-health.org/>
- Facebook: <https://www.facebook.com/WorkerHealthProtectionProgramwhpp/>
- Email: [info@worker-health.org](mailto:info@worker-health.org)



# The Building Trades National Medical Screening Program

## BTMed ([www.btmed.org](http://www.btmed.org))

### Who we are

- Administered by CPWR – The Center for Construction Research and Training ([www.cpwr.com](http://www.cpwr.com))
- Our partners:
  - State and Local Building Trades Councils and Unions
  - Duke University Medical Center
  - University of Maryland Medical Center
  - Zenith American Solutions
- Screening clinics: Network of 225+ clinics/providers across the country.

BTMed has screened former workers living in all **50** states.

### Key program staff

- Knut Ringen, Principal Investigator
- Trish Quinn, Program Director
- Miles Fisher, Asst. Program Director
- Anna Chen, Director of Operations
  
- Medical Team
  - Dr. Marianne Cloeren
  - Dr. Stella Hines
  - Dr. John Dement
  - Kim Cranford, RN
  - Janet Shorter, RN

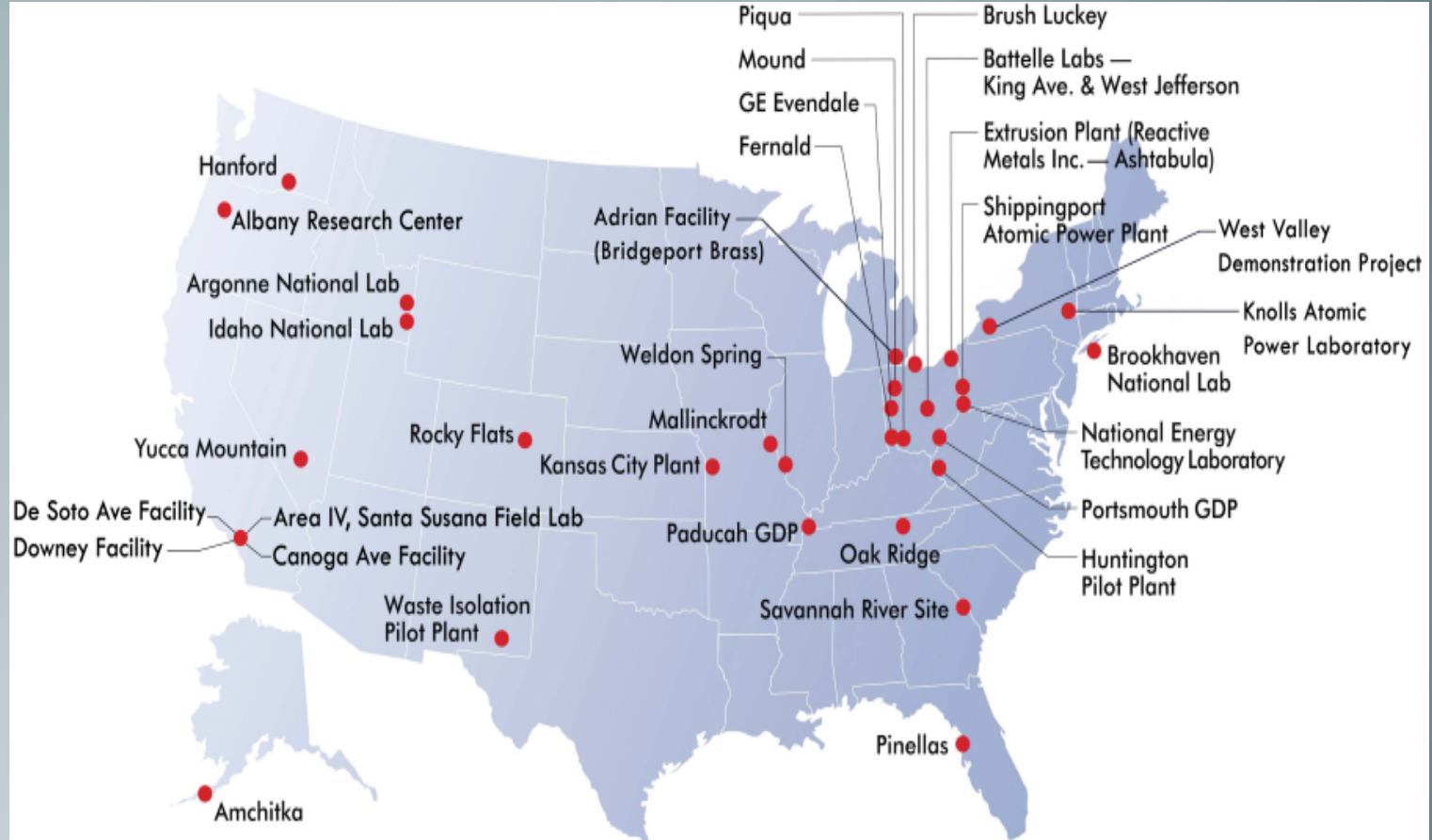
# BTMed ([www.btmed.org](http://www.btmed.org))

We serve DOE former workers who:

Cover construction workers from 35 DOE sites

**and** currently live: **Anywhere**

**and** worked in: **Construction/building trades work**



## What we've done:

Former workers screened: **25,000**

Exams performed: **43,500**

CT scans performed: **8,800**



BTMed ([www.btmed.org](http://www.btmed.org))

For more information or to enroll:

- Call us toll-free at 1-800-866-9663
- Visit us online at [www.btmed.org](http://www.btmed.org)
- Email [btmed@btmed.org](mailto:btmed@btmed.org)
- Visit us on Facebook [www.facebook.com/btmed](http://www.facebook.com/btmed)



# National Supplemental Screening Program (NSSP)

## Who we are

- Managed by Oak Ridge Associated Universities (ORAU)
- Our partners:
  - University of Colorado - Center for Health, Work & Environment
  - National Jewish Health
  - Comprehensive Health Services/Acuity International
  - Cority
- Screening clinics:
  - Acuity International's nationwide network of clinics (over 2,500 in all 50 states used to date)
  - National Jewish Health in Denver, Colorado

## Key program staff

- Dr. Jamie Stalker



Senior Director  
Co-Principal Investigator  
Physician

- Dr. Lee S. Newman



Co-Principal Investigator  
Physician





- Wendy Benade



Program Manager

# National Supplemental Screening Program (NSSSP)

We serve **DOE** former workers in the following categories:

	Workers from one or more of the following DOE Sites (regardless of your geographic location):	-Argonne National Laboratory (East) -Fermi National Accelerator Laboratory -Hanford -Kansas City Plant	-Pinellas Plant -Princeton Plasma Physics Lab -Rocky Flats -Savannah River Site
	And worked in:	production, operations, administration, or any other <u>non-construction</u> role.	
	Workers who currently live:	outside of the screening area from any of the DOE sites assigned to one of the other FWP project you have heard from today	
	Workers who worked at:	a DOE facility that is not assigned a primary FWP project	

# National Supplemental Screening Program (NSSSP)

## What we've done (as of 9/30/2022)

- Participants screened:  
**20,076**
- Exams performed:  
**27,486**, including:
  - 7,410** rescreening exams completed for **5,356** participants
- We have screened former workers living in:  
**All 50** states and some U.S. territories
- In addition to our **8** “primary sites,” the NSSSP has screened former workers from **73** other DOE sites, including **34** “small sites” that do not have a primary FWP project assigned.

## For more information or to enroll:

- Call us toll-free at **1-866-812-6703**
- Visit us online at <https://www.orau.org/nssp>
- Email **NSSP@orau.org**



# DOE FWP Contact Information

**DOE FWP website:** <https://www.energy.gov/ehss/former-worker-medical-screening-program-0>

FWP	Phone Number	Email Address
Lokie Harmond, DOE FWP Manager	202-586-5218	<a href="mailto:lokie.harmond@hq.doe.gov">lokie.harmond@hq.doe.gov</a>
Pantex FWP	1-888-378-8939	<a href="mailto:PantexFormerWorkers@uthct.edu">PantexFormerWorkers@uthct.edu</a>
JHU FWP for Los Alamos and Sandia Labs	1-877-500-8615	<a href="mailto:lanlfwms@jhsph.edu">lanlfwms@jhsph.edu</a>
Burlington AEC Plant & Ames Lab FWP	1-866-282-5818	<a href="mailto:oeh-iowafwp@uiowa.edu">oeh-iowafwp@uiowa.edu</a>
WHPP	1-888-241-1199	<a href="mailto:info@worker-health.org">info@worker-health.org</a>
BTMed	1-800-866-9663	<a href="mailto:btmed@btmed.org">btmed@btmed.org</a>
NSSP	1-866-812-6703	<a href="mailto:NSSP@orau.org">NSSP@orau.org</a>
EEOICPA Compensation Claim Questions	1-866-888-3322	