





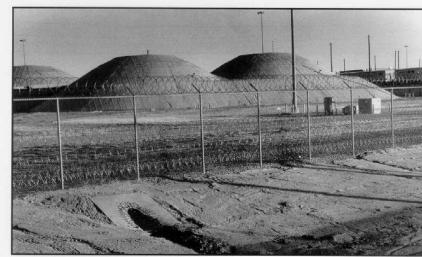
Overview

- History of IAAP
- BAECP SEC Class
- Identifying Line 1/Division B workers
- Line 1/Division B Work Tasks by Building
- BAECP Toxic Exposures
- Medical Screenings
- ILO Classification System, CXR Abnormalities
- IAAP Employment Records

Iowa Army Ammunition Plant (IAAP)

- 19,000 acre facility which houses a large DoD conventional explosives manufacturing facility and a previously secret atomic weapons assembly plant in Middletown, IA (Des Moines Co.)
- Designed and built between 1941-1943 as conventional munitions Loading, Assembly and Packing (LAP) facility.
 - Over 1,000 buildings, 142 miles of roads, 103 miles of railroad tracks
 - Produced conventional missile warheads, caliber tank ammunitions, mines, mortars, artillery, demolition charges and weapons' component parts.





"Gravel gerties" are concrete structures whose roofs consist of cable mesh supporting large amounts of gravel. Beneath them are bays, where workers assemble and disassemble nuclear warheads. Should a warhead's conventional explosives accidentally detonate, the roofs of these structures are engineered to give way, releasing the gravel and trapping the plutonium particles. Up to 2.000 warheads not year are now being dismantled at this site. Parter Plant Amerilla, Tayor, Navagabar, 18, 1002.

DoD & AEC Work at IAAP

- Conventional Weapons, produced high explosive weapons
 - Department of Defense, Division A
 - ~32,000 workers
 - Still in operation current workforce approx. 600 employees
- Nuclear Weapons assembled, dissembled, modified
 - AEC/Dept. of Energy, Line 1/Division B, Burlington AEC Plant (BAECP)
 - 1947 1975 (production line 1949-1975)
 - 1947 1951: the only large scale manufacturer of nuclear weapons in U.S. First plant in the nation to assemble atomic weapons for the AEC.
 - Production transferred to Pantex Plant, Amarillo, TX in 1975
 - ~5,000 workers

Environmental Toxicity from IAAP

- In the 1950s Brush Creek ran red from photochemical products of TNT production effluvia.
- "You could identify workers who worked with Tetryl because their skin was yellow and they turned blond"!!!
- These workers were exposed to solvents, asbestos, heavy metals, explosives, and beryllium
- IAAP designated as a Superfund site in 1990
 - Surface water, ground water wells
 & creek sediments contaminated
 with explosives from waste disposal



DATE	EVENT
1940 November	Contract with Day & Zimmerman approved
1941 January	Plant construction begins
1941 July 31	Iowa Ordnance Plant (IOP) dedicated
1941 September	Line 1 loading operations begin (non-nuclear)
1941 November	Line II loading operation begin (Army side)
1941 December	Line III operations begin
1941 December 12	Explosion in Building 1-05-1 of Line 1
1942 January	Lines IV-A and IV-B begin
1942 March	Explosion in Building 3-05-1 of Line III
1943	Line III-A begins
1945-1951	Increased production and recruitment at plant due to Korean War. Overall plant production peaks in 1952.
1947	Iowa Ordnance Plant converted to a weapons assembly plant. Functions were previously performed at Sandia Base. Burlington and Pantex Plants perform primarily nuclear weapons assembly functions from 1951-1975.
1947	Complete rehabilitation of Line 1 for AEC work
1947-1975	Burlington plant produces high explosive main charges (non-nuclear weapons component) for nuclear weapons
1949	Silas Mason Co. accepts responsibility for operation of highly classified Division B facilities (AEC)
1951 January	Silas Mason accepts responsibility of operations for all shell, bomb and component lines at IOP, drew from existing Division B workers to meet demand
1952 December	Division B production peaks with 1,535 employees
1953	Korean War cease-fire and major plant-wide reduction of employees
1956 May	AEC announces it will expand operations at the Burlington site. More production facilities built on Line 1 and a storage area rehabilitated. The Eye (25 May 1956) announces that radioactive materials were to be introduced into production processes.
1957	More employee reductions due to Army economy move
1958 June	Explosion on Line II, Building 2-10
1959 June	Maintenance workers and craftsman stage two day strike. Intervention by AEC labor relations panel ends strike.
1962	Five day strike
1963	AEC takes over "Division B" from Silas Mason-Mason & Hangar
1965	Government scales back weapons assembly, modification and dismantlement—transfers functions to Burlington from the Medina Modification Center in Texas and the Clarksville Modification Center in Tennessee.
1975	Division B Burlington Plant functions transferred to Pantex Plant in Texas

Army Ammunition

Iowa Arthunded Plant facilities utilized by Contract No. W-49-010-AMC-68 (A). Numbers prefixed by an asterisk (*) identify building constructed by A.E.C., all other numbers represent Ordnance transfer.

First digits of Building Numbers designate location.

I - Line I ll - Yard "L" 23 - Yard "C" 200 - Guard & Fire 500 - Service

B. G. - Burning Grounds F. S. - Firing Site Area

BI	ldg. No.	Bldg. No	B1	dg. No.	Bl	dg. No.	7513
	1-01	1-53		1-82-15		1-99-3	
**	1-01-E	* 1-60)	1-82-16		1-99-4	
	1-02	* 1-61		1-82-17		1-99-5	
	1-03	* 1-61	-E	1-82-18		1-99-6	
*	1-03-A	* 1-62		1-82-19		1-98-7	
*	1-03-1	* 1-63	3-1	1-82-20		1-99-8	- 15
	1-04	* 1-63	3-2	1-82-21	*	1-100	
	1-05-1	* 1-63	3-3	1-82-22		1-115-1	- 4
2/10	1-05-1-E	* 1-63	3-4 *	1-82-51-A		1-115-2	
	1-05-2	* 1-63	3-5 *.	1-82-51-B		1-115-4	
3,6	1-05-2-E	# 1-63	8-6: *	1-82-52		1-115-5 Removed	65
	1-06-1	* 1-63	8-E *	1-82-53		1-115-6	
	1-06-2	* 1-70	*	1-82-54	a\c	1-124	
2/4	1-07	* 1-71	*	1-82-55	**	1-129	
*	1-07-E	* 1-72	*	1-82-56		1-136-1	277.5
	1-08-1	* 1-73	*	1-82-57		1-136-2	- 0-
»k	1-08-1-A	* 1-73	* *	1-82-58		1-136-3	
	1-10	* 1-74	*	1-82-59		1-136-4	
2,4	1-11	* 1-75	*	1-82-60		1-136-5	
	1-12	* 1-76	*	1-82-61		1-136-6	
	1-13	* 1-78	*	1-82-62		1-136-7	- 4
3%	1-13-E	1 -82	1-1 ★	1-82-63		1-136-8	41.0
	1-14	1 -82	2-2 * *	1-82-64	and	1-136-9	
*	1-14-A	1 -82	2-3 *	1-82-66 Penis	-70	1-136-10	
	1-15	1 -82	4 *	1-82-67	4 10 19	1-136-11	
ale	1-15-E	1-82	*	1-82-68		1-137-1	
	1-16	1-82	·-6 *	1-82-69		1-137-2	1-18
	1-17	. 1-82		1-82-70	wed	1-137-3 Reidenlife	
s/c	1-36	1-82	* 88	1-82-71 Rem	1 %	1-137-4	13.1
-46	1-37	1 -82	-9 *	1-82-72	*	1-137-5	3,500
34.	1-40	1-82	-10 ✓ *	1-82-73		1-145	114
*	1-40-E	1-82	10.000	1-82-74	*	1-155-1	
	1-50	182		1-82-75	*	1-155-2	117
	1-51	1-82		1-99-1	*	1-155-3	
	1-52	1 -82	-14	1-99-2	Ȣe	1-155-4	
							ALCOHOLD TO THE

Bldg. 1-115-5 removed from

Bl	dg. No.	Bldg. No.	B	dg. No.	B1	dg. No.
764	3-155-5	23-39-10		23-39-35		500-108-15
	1-188-1	23-39-11		23-39-36	282	-500-129-3
171	1-198-11	23-39-12		23-39-37		500-169-1
	1.198-2	23-39-13		23-39-38		500-169-2
:A:	1-206-1	23-39-14		23-39-39		500-183 BG-1= Charle by
:44	1200-2	23-39-15		23-39-40		500-183 B6-1- Charles 268-8387-71 500-198-8 Voncher 268-8387-71
:4:	1-207-1 .	23-39-16		23-39-41	zý:	B. G2
:4:	1-207-2	23-39-17		23-39-42	:4:	B.G3
:4:	1-211	23-39-18		23-39-43	15:	B. G4
	11-37-1	23-39-19	*	23-51	16:	B. G5
	11-37-2	23-39-20	:40	2353	181	B.G11
	11-37-3	25-39-21	*	23-53-E	101	B.G:-12
242	11-82-1	23-39-22	3/6	2382-1	ofe	F.S1
býc.	11-82-2	23-39-23	:4:	23-115-1	161	F.S2
	32-144	23-39-24	ale:	23-115-2	:5:	F.S3
· · · :\$:	11-206-1	23-39-25		23-137-2	:2:	F.S4
	23-39-1	23-39-26	14.	23-211	101	F.S5
	23-39-2	23-39-27		200-30	204	F.S6
	23-39-3	23-39-28		200-131-2	300	F.S7
	23394	23-39-29		200-167-8-	292	F.S8
	23-39-5	23-39-30		200-167-9-	16:	F.S9
	23-39-6	23-39-31		-500-108-13/	*	F.S10
	23-39-7	23-39-32		500-108-14	N:	F.S11
	23-39-8	23-39-33		30-43-9 (arner	. 4	
	23-39-9	23-39-34		5.27.0	in att	0

Electrical Distribution Primary Lines 65, 705 LF.

Secondary Lines 88,506 LF. Total 154, 211 LF.

Steam Transmission Pipe Lines
All pipe sizes 3/4" thru 14"

Total 43, 665 Ft.

Sewage and Industrial Waste Collection All pipe sizes 4" thru 12"

Total 20, 398 Ft.

Water Distribution Systems
All pipe sizes 1" thru 12"

Total 50, 858 Ft.

Cyclone Fencing

Total 63, 120 Ft.

Blogs 500-129-3, 500-108-13, -14, -15 removed from Excessive Use Print-agreement BRAO-IAAD63-1
Revision dated 10-29-64.

Blys 200-167-8 + 200-167-9 were removed from Epol bee Fermit DA-25-066-ENG-11073 Stel 10-15-67 Vouch, 85-1961-67

Blodge. 1-198-1 x 1-198-2 removed from Exclusive Use Premit - Voucher Us. 4/6-4/27-70 dated 4-29-70.

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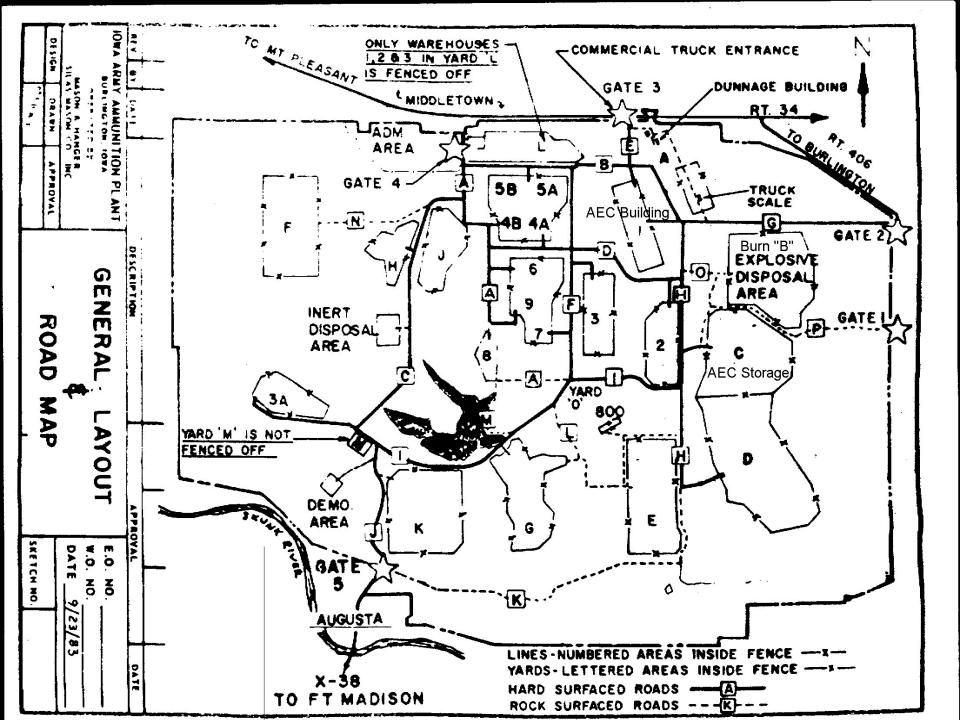
	Roads	Lire I	11.8337	Miles			
		F.S. Area	1.401				
		Yard "C"	9. 5205				
		Burning Ground	2.3349				
		Yard "L"					
		Total	.497	Miles	25 500		
		Total			25.587	l Miles	
2	Railroad	Line I	8.402	Milas			
	90# Rail	Yard "C"	7.354				
	\$100,000 contractors	Yard "L"	.308				
		Total	. 308	willes	34 044	Miles	Ĺ
		4			10,004	Miles	
			Addition	al 50'			
			Outside 1	Fence			
	LAND C	RD. TRANS.	ORD. PR	OPERTY	TOTAL	133	
	Line I	173.	9.7	,	162.7	Acres	
	Gen Area	175200.0.5.			204.6	Acres	
	N&E of						
	Line I	10.	48.		58.	Acres	
	F.S. Area	505.	17.	7	522.7	Acres	
	Yard "C"	390.	16.9		406.9		
	Burning Ground	207.	19.5		The state of the s	Acres	
	Yard "L"	11.77	2.8				
		第四张图图图	2.0	,	14.0	Acres	
	TOTAL	1,386, 71	114.8	39	1501.6	Acres	

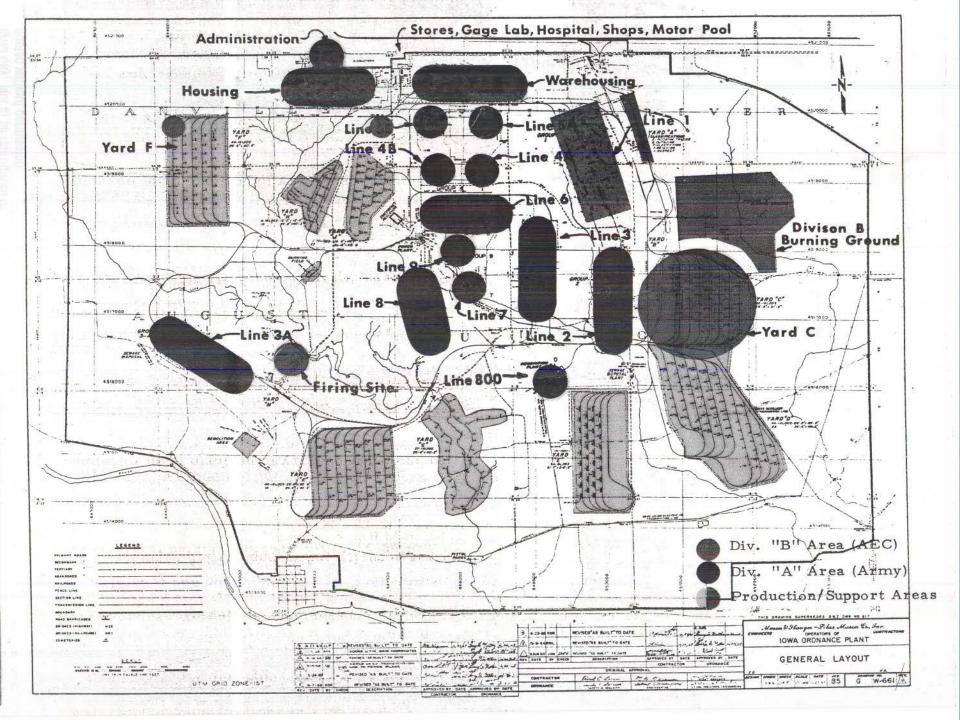
BAECP SEC Class

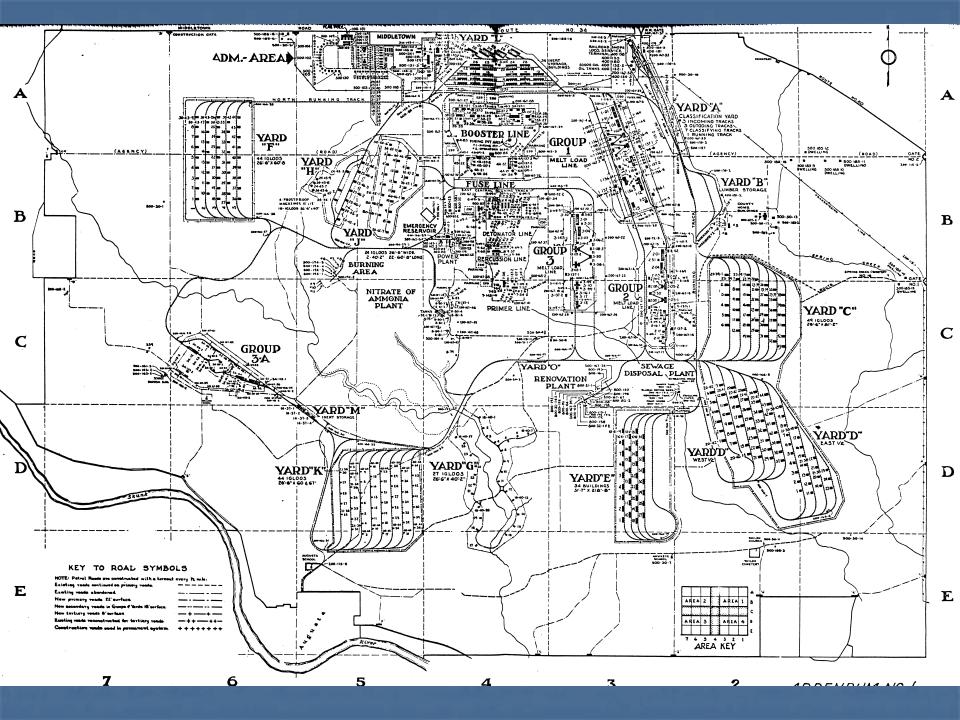
July 2005, NIOSH clarified that the SEC class for the IAAP encompassed AEC workers at Line 1 and associated areas of the facility between the years 1947 through 1974, including Yard C, Yard G, Yard L, Firing Site Area, Burning Field "B", and Storage Sites for Pits and Weapons including Buildings 73 and 77.

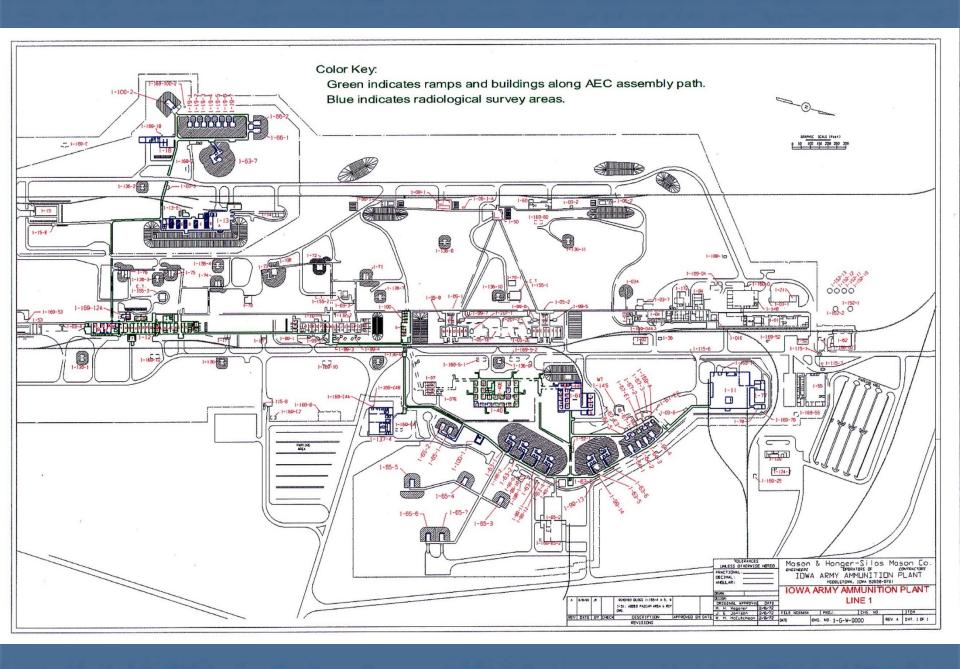
Building No.	Activities/Work Processes		
1-01	Fabrication	Building No.	Activities/Work Processes
Maintenance Shops	Weapons assembly, disassembly, inspection, and surveillance	Division B Burning	Excess material disposal
(Pipe Shop or Tool		Grounds	
and Gauge Shop)		East Burn Pad	Explosives disposal
1-02	Powerhouse operations	Firing Site 1	Firing site operations
Boiler House			Hydroshot cleanup
1-03	Chemical analysis		Hydroshot operations
Water Lab	Analytical laboratory activities	Firing Site 12	Explosive charge test firing
	Sample casting preparation and crushing	Fitting Site 12	
1-03-2 through	Solvent Storage		Hydroshot cleanup
1-03-7			Hydroshot operations
1-04	Health and Safety Offices, and the Information Retrieval Office	Firing Site 14	Plane wave lens shots
Developmental Lab or	where chemical analysis was conducted on the south end and		Plane wave lens shots cleanup
Chem. Lab	maintenance was conducted on the north end		Tile shots
	Other activities include chemistry laboratory, development,		Tile shots cleanup
1.05.1 11.05.2	laboratory, oxyacetylene torch metal cutting, and testing	Firing Site 6	Explosive charge test firing
1-05-1 and 1-05-2	Known as the melt and pour areas or the "Center of Line" where		Plane wave lens shots
Melt Buildings	operations included the melting of composition B, TNT and		Plane wave lens shots cleanup
	barium shapes, explosives fabrication, pressing, and machining, explosives melt production, and melting and casting	West Burn Pad	Explosives disposal
1-06-1	Powder (explosives) receiving, receipt and storage, and storage		· · · · · · · · · · · · · · · · · · ·
Magazine for	rowder (explosives) receiving, receipt and storage, and storage	West Burn Pad	Landfill activities
Composition B and		Landfill	
TNT		Yard L	Forklift repair and battery maintenance
1-06-2 Powder Prep	Powder (explosives) receiving, receipt and storage, and storage	(AEC Inert Storage)	
1-08	Explosives fabrication, pressing, and machining;	Yard C	Storage yard designated for explosive material
1-08-1	Receipt and storage activities	Yard G	Storage for finished castings
1-10	Explosives fabrication, pressing, and machining		
Explosives Press and	Machining		
Machining			
1-11	Receipt and storage activities		
Receiving and Storage	Shipping and receiving weapons components		
1-12	Explosives fabrication, pressing, and machining		
	Assembly operations		
1-13	Material handling		
	Weapons assembly, disassembly, inspection, and surveillance		
	(this was an assembly area for uranium 235 pits which involved		
	the assembly of larger nonplutonium weapons (U235) detonators		
	and covers		
1-15	Staging area used for storing HE		
1-16	Adiprene preparation		
1-18	Research and development		
1-19	MOCA operations		
	Weapons assembly, disassembly, inspection, and surveillance		

Criteria for Line 1/Division B cohort selection	Records	N	Comments
3x5 cards job codes match those from the IAMAW job code classifications	7,170	4,364	7,183 by the second run?
3x5 cards job classification matches L class	4,655	3,171	
AEC specific comments in 3x5 cards – transfer to: Line 1, AEC, Division B, contract 68, Pantex	1,618	609	
IAMAW (Machinists' Union) Division B seniority lists – Division B specific comments/job name	916	163	
Available radiation badge information	1708 (n=399) matches	434	35 AEC employees
Employees in industrial hygiene MOCA logs from buildings 1-61, 1-40 and 1-12	249	48	
Security guards (most of whom were Q cleared, – 3x5 job codes: P-31-1, P-71, P-72, P-73, PG-1, PG-2, PG-3	570	418	G-1 AEC status identified by matching with other tables
Codes for firing sites FS-6, FS-12 (P-1-6, P-6-1)	3	3	
PBX Press operators, who pressed the high explosive into its initial form (P-26, PP-26)	16	15	
X-ray operators and technicians identified by job code (PX-1, X-11,PC-7)	65	42	
Sub Total	16,940	4,639	
Screened by ORISE (BeLPT only)	304	304	identified 65 as Division A
Employees specifically identified on pre-1975 medical records as Line 1 employees	82	82	
Former workers screened by BAECP-FWP from 1/2002 – selected for the screenings from Line 1 cohort or called in and identified themselves as Line 1 workers	942	942 (incl. 6 by NSSP)	Includes subcontractor(s) – Aramark etc.
Total	18,268	5,267	









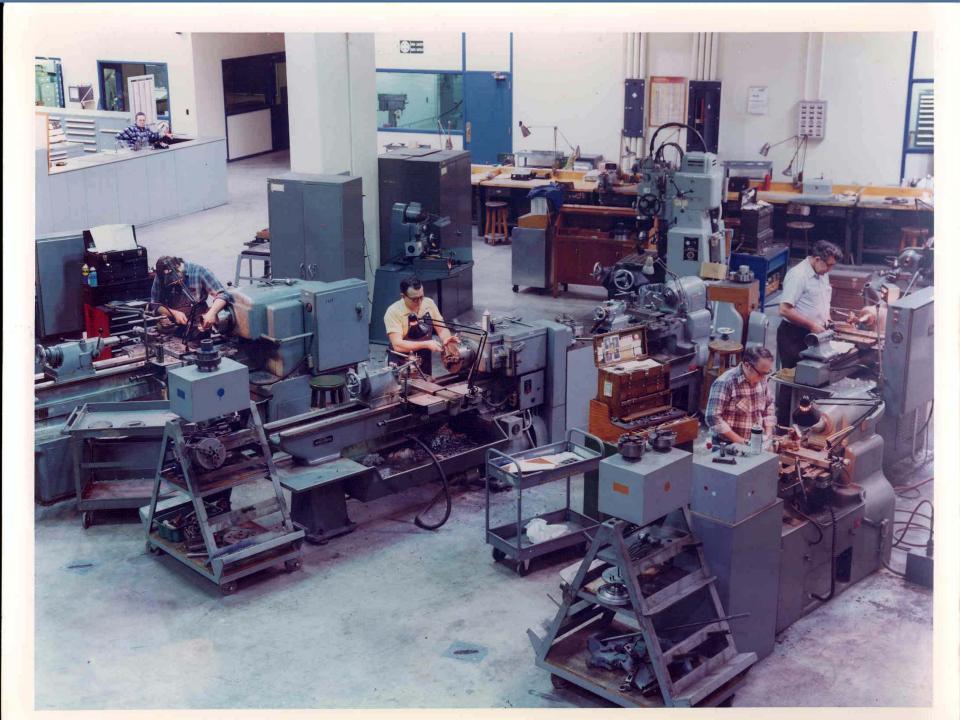




Beryllium tools were the norm in munitions industry. These were typically 2% copper Beryllium alloys, used for avoiding spark.

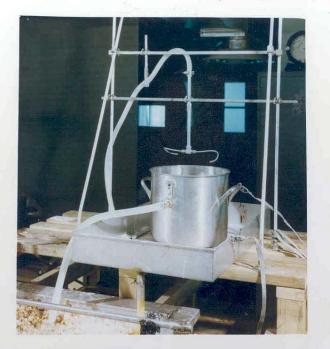
Copper-Beryllium Non-Sparking Tools











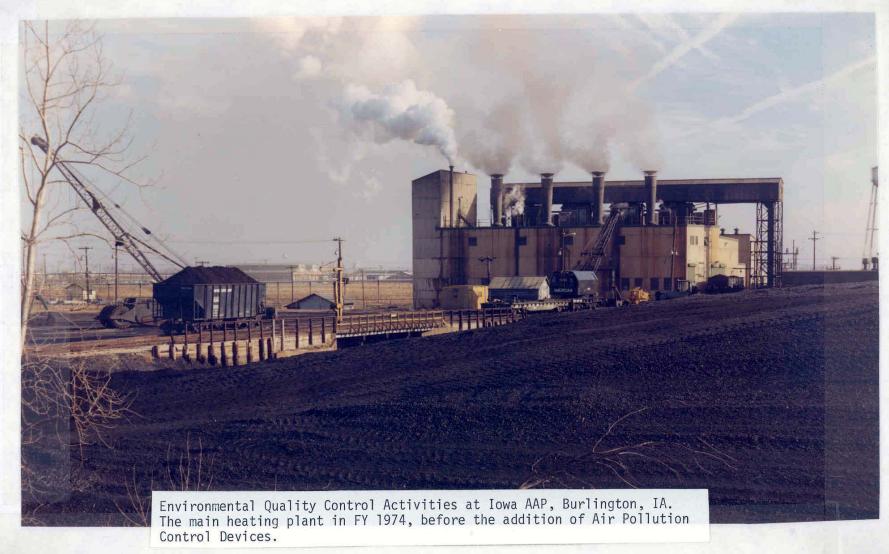




TOP LEFT - 25 LB. LEAD AZIDE DISSOLVING IN NaOH. TOP RIGHT - NaOH CIRCULATING SYSTEM.
BOTTOM LEFT - 2000 GALLON PLATING TANK. BOTTOM RIGHT - PLATING ELECTRODES.







BAECP Toxicants

- Occupational exposures to fissionable or radioactive materials and a variety of hazardous substances
 - High explosives, solvents, epoxies, toxic metals, fibrogenic dusts
- Uranium and Plutonium, (U-235, Pu-239)
- Beryllium, Asbestos
- Isocyanates
- MOCA, B-Naphthylamine
- Benzene, Nitrobenzene, Dinitrobenzene
- TNT, DNT, Tetryl
- RDX, PBX, HMX, Octol, PETN
- Lead, Mercury, Arsenic, Cadmium, Manganese
- Depleted Uranium, (U-238)
- Physical Hazards- Noise

Beryllium surface concentrations by munitions plant locations

(% of samples in concentration categories)

	Samples	< LOQ	≤ 0.2	$0.2 < x \leq 3.0$	> 3.0
Main Machine Shop ^A	14	7	36	43	14
Production Line Maintenance Shops ^A	22	5	50	45	-
Production lines ^B	39	5	80	-	-
Change House and Laundry ^{A,B}	11	18	64	18	-
Non-Production and Administrative Areas ^C	9	67	33	-	-
All Munitions Areas*	95	13	60	25	2
All reference site samples* (Off-Site)	46	28	65	7	0

Superscripts A, B, and C indicate plant areas with significant (p>0.05) frequency differences in concentration categories.

Sanderson WT, Leonard SA, Ott DK, Fuortes LJ, Field RW (2006) Beryllium Exposure from Use of Non-Sparking Tools in a Military Ammunition Plant, Journal of Occupational and Environmental Medicine, 5: 475-481, 2008

^{*} Chi-square test comparing all munitions plant samples and all reference plant samples = 11.1; p=0.011.

Implications

 Likely similar risks for other workforces exposed to Be alloy tools

Demonstrated link between workers in the vicinity of Be tools and a higher prevalence of positive BeLPTs

May provide for improved policy review of Beryllium usage and biomonitoring

Medical Screenings & Interventions

Hazard	Screening Test	Results of Screening
Asbestos	chest x-ray, spirometry	early diagnosis of asbestosis or lung cancer; smoking cessation, pulmonary rehabilitation, flu and pneumonia vaccinations
Beryllium	lymphocyte proliferation test, chest x-ray	early diagnosis of sensitization (i.e., identification of increased risk for chronic beryllium disease), chronic beryllium disease (CBD), or lung cancer, steroid treatment, and interventions noted above.
Explosives, solvents	liver function tests	early diagnosis of chronic liver disease or liver cancer and leukemia, dependent on test abnormality
MOCA	urinalysis	early diagnosis of bladder cancer; surgical intervention
Radiation		early diagnosis of cancers

FWP Medical Screening Program Goals

To detect conditions that are amenable to early intervention

colorectal cancer, bladder cancer

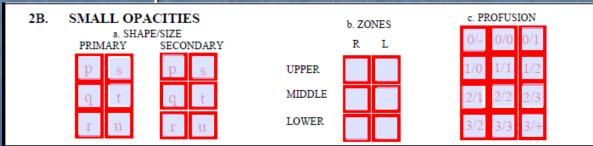
- To ameliorate certain conditions
 - chronic respiratory diseases
- To provide primary prevention
 - lung cancer via smoking cessation

Fortunately, Former Workers lives have been saved as a result of early detection of cancers and other conditions

Background: ILO Classification System

Profusion of small opacities

- Determined by comparison of radiograph with standardized reference films
- Reference films represent midrange of four major ordinal categories (0-3)
- Minor categories
 - Help reader place radiograph on continuum
 - Create twelve-point scale



ILO Scoring

Categorization

0/-

0/0

0/1

1/0

1/1

1/2

2/1

2/2

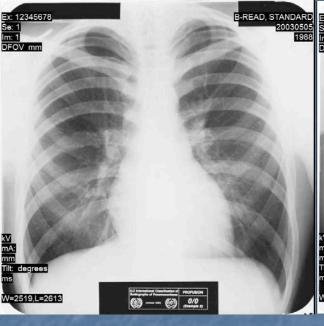
2/3

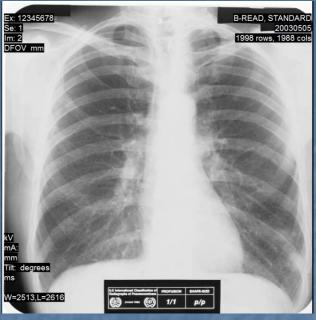
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3/2

3/3

3/+





B-READ, STANDARD 20030505

1996 rows, 1988 cols

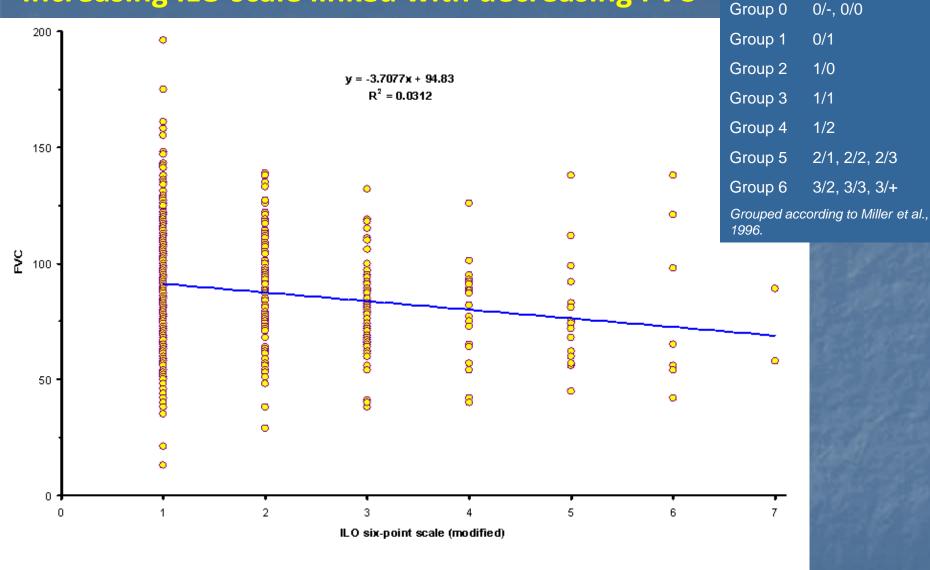


CXR Abnormalities in IAAP DoE Workforce Results

- CXRs n=757 with 3 ILO readings
 - <u>n=45 (5.9%)</u> with ILO parenchymal abnormalities
 - 60% with ILO 1/0
 - 22% with ILO 1/1
 - 18% with ILO ≥ 1/2 (1/2-3/2)
 - n=19 (2.5%) with ILO parenchymal & pleural abnormalities
 - 47% with ILO 1/0
 - 26% with ILO 1/1
 - <u>n=37 (4.9%)</u> with ILO pleural abnormalities only

Increasing ILO scale linked with decreasing FVC

ILO groupings



•The association of ILO score to FVC % predicted is independent of age, gender, smoking status, and Be exposure. Both Be exposure and ILO independently affect FVC % predicted.

TABLE 5. Logistic Regression Models for Spirometry Results as Predictors of ILO Radiographic Abnormalities

Spirometry results*	Parenchymal OR (95% CI)	Parenchymal and Pleural OR (95% CI)	Pleural OR (95% CI)
Normal	1.0	1.0	1.0
Obstructive	2.96 (1.01-8.71)	2.03 (0.23-18.27)	1.68 (0.36-7.93)
Restrictive	2.00 (0.96-4.15)	4.14 (1.32-13.01)	2.82 (1.28-6.20)
Mixed	2.35 (0.87-6.39)	1.36 (1.36-22.11)	3.25 (1.16-9.08)
P	0.09	0.05	0.04

^{*}Controlled for age, sex, race, and smoking.

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Hankinson equations for spirometry values based on NHANES
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Parameter = $b_0 + b_1 * age + b_2 * age^2 + b_3 * height^2$

FVC = -0.1933 + 0.00064 * Age - 0.000269 * Age² + 0.00018642 * Ht² [Men, Age 20 and over]

FVC = -0.3560 + 0.01870 * Age - 0.000382 * Age² + 0.00014815 * Ht² [Women, Age 18 and over]

FEV1 = 0.5536 - 0.01303 * Age - 0.000172 * Age² +0.00014098 * Ht² [Men, Age 20 and over] FEV1 = 0.4333 - 0.00361 * Age - 0.000194 * Age² +0.00011496 * Ht² [Women, Age 18 and over]



FWP Screening Summary

- Elevated rate of beryllium sensitization despite low exposures and benefit of IH coordination with surveillance
- Implications for more widespread screenings of DoE populations and other workforces utilizing Be alloys
- Fibrotic lung diseases more prevalent than expected (is this an age, smoking, screening or occupational exposures?)

IAAP Employment Records

- Historic employment records on file with the University of Iowa Former IAAP BAECP Worker Program
 - Main contractor Silas and Mason (Mason and Hanger)
 3x5 employment cards scanned images (~35,000 employees)
 - International Association of Machinists and Aerospace Workers Union (IAMAW) Schedules of Job Classifications and Salary Ranges (Job Dictionaries)
 - Radiation Dosimetry Badge Records
 - Union Seniority Lists, Division B Production Workers
 - Line 1 Incident Reports

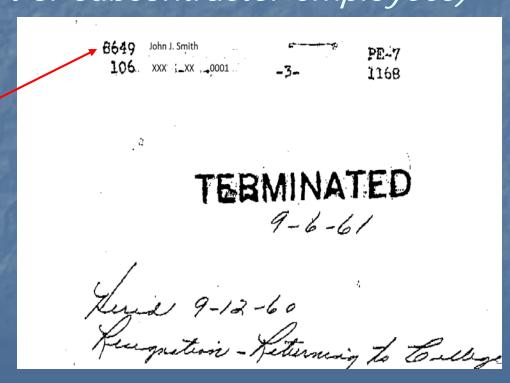
IAAP Employment Records

- Other (provided by former worker/family)
 - Medical records from IAAP
 - Clearance documents, salary slips, social security records, congratulatory letters and any other documents with IAAP employment information
 - Individual and/or co-workers account of employment history

3x5 Employment Cards

- N>68,000, start in 1948, include AEC era (1949 1975), replaced in early 1990s with e-records (PeopleSoft, MainFrame)
- Contractor only (No Gov't or subcontractor employees)
- Include:
 - ID (Name, SSN)
 - Badge number
 - Start and end date
 (<40% with complete
 hire and pre 6/1/1975
 term date information)

Cards scanned, available in e-format, database searchable



3x5 Employment Cards

Job code (N>2000 era and line specific (1950s) job codes)

Job class

(relevance unknown, no correlation with job codes or AEC employment)

Wages (Higher wages in several AEC production jobs compared to DoD)

Free text (e.g. reasons for termination)

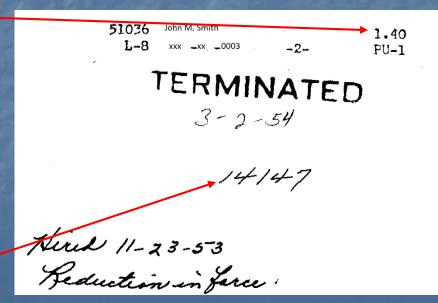
Other (relevance unknown)



TERMINATED

9-29-61

Hier 3-1-51 Licipation - Leaving town



3x5 Cards – Utility in Employment Verification

- Main (available) historical employment roster for IAAP workers
- Include job codes and dates of employment
- Incomplete no information on:
 - Federal government workers (e.g. AEC inspectors)
 - Subcontractor workers (cafeteria)
 - Duration of employment for every worker (esp. early 1950s)
- Lack of consistency throughout decades
 - 1960s and 1970 job codes no longer specific to Line 1 vs Div. A (DoD)
 - Same job codes used for different job titles

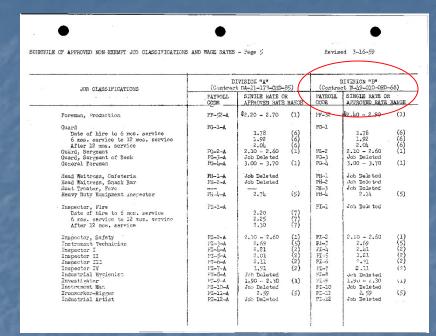
IAMAW Job Dictionaries & Wage Lists

 Approved job classifications for collective bargaining for non-exempt positions

Include:

- Job code and job title
- Div. B (AEC Line 1) vs. Div. A Line 2-9) designation (1950s with few positions in 1960s and 1970s)
- Wages/salary ranges
- Contract numbersAEC Contract W-49-010-ORD-68DoD Contract DA-11-173-ORD-85

Schedules scanned (OCR) - available in eformat, database searchable



JOH CLASSIFICATION	PAY HOLD.	APPROVED BATES Effective 3-28-66	STRATESTO APPROVAT COOK
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Strates (18) ros. to 140			(é)
(T-) mos. corrice	cry-tour		(4)
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nos. scrvice			(6)
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acs. service			(4)
Forty-two (42) mos. to Yo	rty-eighs (48)		
prs. service			(4)
Inthy-wight (48) mas. 202 the confiner	vice and		(4)
THE PORTOR			(4)
Paperhanea Engineer	2-41		(2)
Pipeliton	2-5 "	3.62	(5)
Pageise	7-6 or		(2)
Production Operator I	2-3-1		(2)
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Figuration Contains IV	P-10-1		86
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3ed 5 max. (63% of 3/R)	F-12		(2)
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ith 6 nce. (71% of J/R)	P-15		(5)
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The same of the same	1-14		(3)
	-1-		

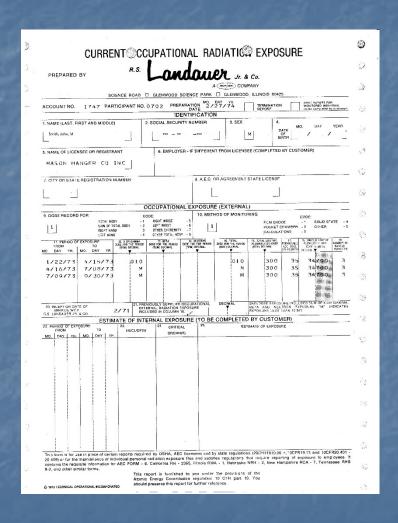
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Cornenter	C-19		(2)			
Concret Soon Albertant	G-11		(2)			
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Car Inspector, Railroad	G-23		(2)			
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Dyor 6 yrs. service			(2)			
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Equipment Operator F.	3-9		(2)			
Replosive Operator	E-8-1		(9)			
Explosive Operator	K-8-2	2,83 ~	(3)			
Einelighter	F-L					
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After 12 mer, syrvice			(3)			
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Date of Mire to 6 mes. service			(3)			
6 mes. Service to 12 mes. service Sitter 12 mes. service			(3)			

Radiation Dosimetry Badge Reports

- Occupational Radiation
 Exposure Monitoring Records
 for AEC workers
 - Dosimetry film badge reports
 - Only AEC workers (N=402)

Include:

- Last, First Name or First Initial, SSN
- Film badge start and end Date
- Exposure dose



Reports scanned, available in e-format Database searchable

Seniority Lists and AEC Incident Reports

IAMAW Seniority Lists for Div. B (AEC) Production Workers

(N=326 workers)

Include:

- First Name, Last Name, MI
- Badge no, job code (PP-7 through 10), seniority date
- Only available for 1950s

Lists scanned (OCR), available in e-format, database searchable

IOWA		& HANGER-SI AUNITION PLA			ANT
		Satory Da	partment		
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r norograph Nos _	203-0130, 013	11 0.30			
	I E Emiles	TEL	Di -		
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supervisor wh	on the express	ion occurred.			
				insement of an	mer metal
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Division B Incident Reports

- N=6 incidents, 1966-1967
- N<10 workers involved</p>
- N<15 Line 1 engineers and safety & health personnel

Reports scanned (OCR), available in e-format

Other (provided by former worker/family/AR)

- Medical Records from IAAP
 - Available per individual request from IAAP HR
 - Claimant required to provide copy of Birth Certificate/Death Certificate
 - S&H cost

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Include:

First Name, Last Name, MI

Badge No, Job Code,

Line /Division designation,

Date of Clinic Visit

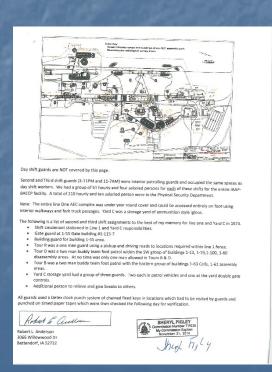
AUTH	ORIZATION FOR		ATMENT	No.
Nema	-/-		Badge	
Job Classification			Department Provi	1. D'v. D
	ANTHO	RIZATION		
Medical treatment is authorized for t	to employee nam	above for the	following means:	
Detc	4. Signature			
		-	SUPERMON	
	MEDICAL REPOR		OR	
The employee was sean by the Medica	Department at	A.M. P.M. on	1-5-71	20 202
bocause of:				
Occopational Hoses/Injury			Non Occ	apoticos lines
Return to Work			XX Modica	Rcc assification
Other (Spacify)				
The following disposition was made:				
Physical Pochock - Clas	a B. Old o	1ess wwo 3		

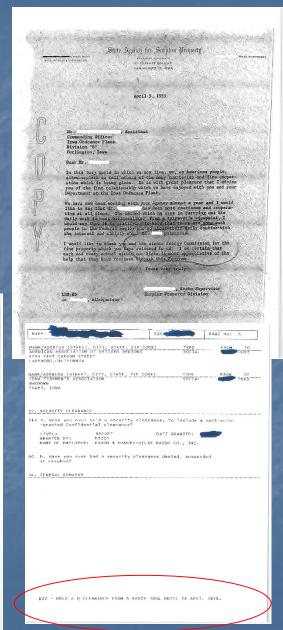
	-			
		Signature		N.D.
0EPA	ARTMENTAL CON	IMENTS AND	CTION	
OEP/	ARTMENTAL CON	AMENTS AND A	ACTION	
OEP/	ARTMENTAL CON	AMENTS AND	ACTION	
OEPA	ARTMENTAL CON	AMENTS AND	ACTION	
OP/	ARTMENTAL COM	AMENTS AND A	ACTION	

L'EDICAL CLASSIF	FICATION AND RE-EX	CAMINATION DATA .	
Street John M. Smith	Bodge	Medical Class.	
		Producti Citassi	
ob Classification Production Opera	tor P-8-1		Dates of Periodic
Vierity Assignment 1108 - o4	CDPO		1-71 Exuminations
Viority Assignment 11-G8 - 65	ODI	wary	2.24 24 13
late of Birth 2-22-18 Applye	ersary Date		-13-72 B
		Bug.	
MA Medical Impairment Oraup:		· -	
O. Body as a whole (including mental and body			
generally) Charily of 100 ex 1. Integumentary system (including and a list	The much of the	- marconga	
membranes & breasts)			Date of next
2. Musculoskoletal system			Re-examination
3. Respiratory system			
Cordiovascular system Hemic and lymphatic systems.			
Digestive system			
7. Uragenital system			
8. Endocrino system			The second secon
9. Nervous system	·		
10. Organs of special sense			
le-examination Interval	Tv	pe of Exam	
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Other (provided by former worker/family/AR)

- Clearance documents
- Congratulatory letters
- Salary slips
- Social Security information
- Workers own account
- Co-workers account





Contacts BAECP Employment Verifications

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