

FILE NAME: Metropolitan Life (ML)

DATE: 1932

DOC#: ML062

DOCUMENT DESCRIPTION: Letters between Dr. Lanza, McGill University, Met Life & Others RE Asbestosis, Silicosis & Financial Coverage

COPY

GENERAL MOTORS CORPORATION
DETROIT, MICHIGAN

February 12, 1932.

Dr. F. V. Meriwether,
U.S. Bureau of Mines Clinic,
Picher, Okla.

Dear Dr. Meriwether:

The Johns-Manville Corporation have a plant at Manville, N. J. which employs about 1200 people. They are going to make a survey of their employees to determine the amount of asbestosis in the plant. To do this they are going to take one-half of their employees and have them fluoroscoped. They will then be examined and x-rayed. The physician who does the fluoroscopic work will have no connection with the x-ray work, the idea being to make the diagnosis with the x-ray and then determine to what extent the fluoroscope is correct.

Dr. Fellows is of the opinion that it will probably be difficult, if not impossible, to pick up asbestosis with a fluoroscope, although he thinks there would be no trouble in detecting silicosis by this method.

I have recommended to the Johns-Manville Corporation, as has Dr. Fellows, that they depend upon you for the interpretation of the x-ray films, 600 in number, and they will be glad to pay you a fee of \$200.00 for this work. They feel, as does Dr. Fellows, that they have no more right to ask this service from you without proper recompense than they would any other phase of the study.

If this is agreeable to you, will you please let me know so that I can communicate with Mr. Vandiver Brown, the General Counsel of the Johns-Manville Corporation. I hope that you can do this as this is really a very important experiment on this whole question of physical examination in industry and may have far reaching effects.

I am hoping to visit you with Dr. Sagers about March 1st but would like an answer to this letter as soon as possible.

With best regards, I am

Sincerely yours,

(Signed) A. J. Lanza.

P.S.

Dr. Fellows would like to know what type of film would be desired for this work, that is, a fairly brilliant film with a good deal of contrast, or a moderately light film which would show the earlier changes. He believes that a film strictly comparable with that one in the Metropolitan Office would probably be satisfactory.

I would appreciate if on receipt of this you would write directly to Dr. E. E. Fellows, Metropolitan Life Insurance Co., 1 Madison Avenue, New York City, and advise him as to the technique, remembering that these asbestosis cases do not show up as clearly as do the silicosis.

A. J. L.

5100

PHYSICAL EXAMINATIONS AT MANVILLE FACTORY

Manville, New Jersey.

At a conference held at General Headquarters, it was decided to conduct chest examinations on 600 employees taken at random from different parts of the factory.

It was recommended by Dr. Vollesen of the Metropolitan Life Insurance Co. that examinations be made by X-ray and fluoroscope. It was later decided that this examination include all employees at Manville factory.

An X-ray and fluoroscope were installed on February 22nd, 1932. Tests were started on employees on Feb. 24th. The services of Dr. P. A. Sabatello, on recommendation of Dr. Fellers, were obtained for the fluoroscopic examinations and supervision of the general examination of employees, which also included X-ray, some physical examinations of chests, and histories. Dr. Sabatello was assisted by Dr. Fetherstoner, who acted as technician and took all the X-rays of employees' chests. The histories were taken by Miss Weira, who was thought best fitted for the task because of her intimate connections with most of the families of the employees and her knowledge of most of their past histories. No specific reason was given to employees for the examination, except the general understanding that it was a "general health survey".

On recommendation of Dr. Lamar of the Metropolitan Life Insurance Co. contact was made with Dr. Fetherstoner, Surgeon in Charge, U. S. Bureau of Mines, Picher, Oklahoma, to interpret the X-rays taken.

An examination card was made up to include fluoroscopic record, history record, as well as standard physical examination for employment in order to make one complete physical record. An X-ray card was made up to send with each X-ray film to Dr. Fetherstoner for him to render his interpretations. This was done for the purpose of having only one record of the X-ray interpretations.

Employees to be examined were selected by the Personnel Department. Each employee was summoned to appear at the plant dispensary by appointment. On arrival, his complete record of employment, injuries and illnesses, past and present, were obtained by Miss Weira by

Means of leading questions appearing on the examination card. The employee was then prepared for examination and an X-ray and Fluoroscopic examination made. On the X-ray film was included the employee's clock number for the purpose of identification. Physical examinations of cases with positive Fluoroscopic findings were made by Dr. Schatelle. The Fluoroscopic findings were recorded directly on the card by Dr. Schatelle. The positive cases that had a previous employment history of a dust occupation were called "Pneumoconiosis" (which is the general, non-specific, term for a dust infection of the lungs). The positive cases that had no previous dust history were called "Asbestosis".

The X-rays with a card attached bearing only the employee's clock number, and not his name, were sent direct to Dr. Harinether. This card also contained the past dust history of the employee.

It was originally intended that only 600 of the employees be examined, but the results of the first 500 examined were so impressive that it was decided to examine all factory employees, the total examined being 1140.

The examination period was from February 24th to May 19th, 1932, and an average of 100 employees a week was examined.

A list was then made from the records of X-ray interpretations, Fluoroscopic findings, past employment history, and Nashville Factory employment history.

An individual case history record was made of the positive cases, using the X-ray as a basis for positive. From this individual case history record, four reports were compiled as follows:-

- (1) Comparative record by stages of X-ray and Fluoroscope.
- (2) Location of these cases in the plant by departments.
- (3) Record of inside and outside dust exposures.
- (4) Period of plant exposure and period of coal mining exposure, the latter being chosen because it proved to be the outstanding past employment history.

OSHA 214-551405

- (1) 15% of positive cases are located in the Textile Department.
 13% Pipe Coverings & General
 12% Roofing & Waterproofing
- (2) 24% of Asbestos cases are in Textile Department.
 4% (the most highest percentage of Asbestos cases) are located in Pipe Covering & General Ducts.
- (3) 63% of positive cases have Pneumoconiosis.
 38% Asbestos.
- (4) There are no Third Stage Asbestos cases.
 Out of 27 Second Stage cases 7 were Asbestos and 20 were Pneumoconiosis.
- (5) 17% of total sampled had coal mining experience.
- (6) 25 cases were too thick checked for Fluorescopic reading.
 (Very poor illumination.)
- (7) % of 3rd Stage positive by Fluorescope - 100%
 % of 2nd Stage positive by Fluorescope - 46%
 moderate - 38%
 slight - 1%
 poor illumination - 2%
 % of 1st Stage positive by Fluorescope - 29%
 moderate - 12%
 slight - 17%
 negative - 13%
 poor illumination - 9%
 % of Early Stage positive by Fluorescope - 11%
 moderate - 8%
 slight - 42%
 negative - 34%
 poor illumination - 6%

RESUMMATION

- (1) Outright rejection of any new applicants with five years or more of coal mining history.
- (2) Careful chest examination of all new applicants with less than five years coal mining history.
- (3) Outright rejection of all new applicants with ten years of previous textile dust history, foundry history, cement work, pottery, silica dust, glass grinders or any dust occupation. Careful chest examination of all with less than ten years dust history.
- (4) Outright rejection of all new applicants with any suspicion of T. B.
- (5) Most improved methods of dust elimination with rigid enforcement of the use of respirators where necessary.
- (6) Proper warning to employees of unnecessary exposure to dust.
- (7) Periodic X-ray examination of employees exposed to dust.
- (8) Outright purchase of the X-ray equipment used in the examination, for periodic examinations.
- (9) Disposition of present cases.

GENERAL INFORMATION			SALE HISTORY		BIBLIOGRAPHY	
Line	2nd 3rd 4th	5th 6th 7th	8th 9th 10th	11th 12th 13th	14th 15th 16th	17th 18th 19th
1	1907 MARSHALL					
2	1908 MARSHALL					
3	1909 MARSHALL					
4	1910 MARSHALL					
5	1911 MARSHALL					
6	1912 MARSHALL					
7	1913 MARSHALL					
8	1914 MARSHALL					
9	1915 MARSHALL					
10	1916 MARSHALL					
11	1917 MARSHALL					
12	1918 MARSHALL					
13	1919 MARSHALL					
14	1920 MARSHALL					
15	1921 MARSHALL					
16	1922 MARSHALL					
17	1923 MARSHALL					
18	1924 MARSHALL					
19	1925 MARSHALL					
20	1926 MARSHALL					
21	1927 MARSHALL					
22	1928 MARSHALL					
23	1929 MARSHALL					
24	1930 MARSHALL					
25	1931 MARSHALL					
26	1932 MARSHALL					
27	1933 MARSHALL					
28	1934 MARSHALL					
29	1935 MARSHALL					
30	1936 MARSHALL					
31	1937 MARSHALL					
32	1938 MARSHALL					
33	1939 MARSHALL					
34	1940 MARSHALL					
35	1941 MARSHALL					
36	1942 MARSHALL					
37	1943 MARSHALL					
38	1944 MARSHALL					
39	1945 MARSHALL					
40	1946 MARSHALL					
41	1947 MARSHALL					
42	1948 MARSHALL					
43	1949 MARSHALL					
44	1950 MARSHALL					
45	1951 MARSHALL					
46	1952 MARSHALL					
47	1953 MARSHALL					
48	1954 MARSHALL					
49	1955 MARSHALL					
50	1956 MARSHALL					
51	1957 MARSHALL					
52	1958 MARSHALL					
53	1959 MARSHALL					
54	1960 MARSHALL					
55	1961 MARSHALL					
56	1962 MARSHALL					
57	1963 MARSHALL					
58	1964 MARSHALL					
59	1965 MARSHALL					
60	1966 MARSHALL					
61	1967 MARSHALL					
62	1968 MARSHALL					
63	1969 MARSHALL					
64	1970 MARSHALL					
65	1971 MARSHALL					
66	1972 MARSHALL					
67	1973 MARSHALL					
68	1974 MARSHALL					
69	1975 MARSHALL					
70	1976 MARSHALL					
71	1977 MARSHALL					
72	1978 MARSHALL					
73	1979 MARSHALL					
74	1980 MARSHALL					
75	1981 MARSHALL					
76	1982 MARSHALL					
77	1983 MARSHALL					
78	1984 MARSHALL					
79	1985 MARSHALL					
80	1986 MARSHALL					
81	1987 MARSHALL					
82	1988 MARSHALL					
83	1989 MARSHALL					
84	1990 MARSHALL					
85	1991 MARSHALL					
86	1992 MARSHALL					
87	1993 MARSHALL					
88	1994 MARSHALL					
89	1995 MARSHALL					
90	1996 MARSHALL					
91	1997 MARSHALL					
92	1998 MARSHALL					
93	1999 MARSHALL					
94	2000 MARSHALL					
95	2001 MARSHALL					
96	2002 MARSHALL					
97	2003 MARSHALL					
98	2004 MARSHALL					
99	2005 MARSHALL					
100	2006 MARSHALL					

SECRET

TYRRETT

DATE: 11/11/1964

SECRET

✓ ✓
✓ ✓

10. Robert H. H. H.
 11. John H. H. H.

✓ 27 02 1970
✓ 27 02 1970

[illegible]

John L. Gross
John Poch

[Faint, illegible markings]

James O'Connell

[illegible]

53 John & Soriano
56 Stella Vosik

[Handwritten signature]

1947-1948

[illegible]

18 John Street
New York City

11/11/11

[Handwritten signature]

✓
✓
✓
✓

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

✓ La Grange Hill, N.Y.

NAME	AGE	SEX	HEIGHT	WEIGHT	HAIR	COMPLEXION	EDUCATION	REMARKS
17 Gen. Violett	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
18 Joe. Violett	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
19 Peter Shubert	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
20 George Shubert	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
21 Steve Benson	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
22 Angelo Francis	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
23 Geo. Ferello	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
24 John Wilson	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
25 Josie Owens	35	F	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
26 Frank Monahan	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
27 Steve Thompson	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
28 Joe. Stancich	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
29 Martin Murphy	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
30 Abraham Fuchs	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
31 Joe. MacDonnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
32 Steve Shubert	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
33 John Stuck	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
34 Martin Miller	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
35 Roy. McArthur	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
36 Martin O'Donnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
37 John Russell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
38 John Russell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
39 Robert MacDonnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
40 Mike Lagan	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
41 Vincent MacDonnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
42 Mike MacDonnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
43 Walter Brandy	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
44 Alan Simpson	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
45 Joe. MacDonnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
46 Tony Lachman	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
47 Daniel MacDonnell	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
48 Walter Carson	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
49 Bart. Sauer	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
50 Ralph Downer	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
51 C.R. Peterson	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
52 John Bergman	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
53 Feliciano Mass	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
54 Alice Whelan	35	F	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days
55 John Monahan	35	M	5' 8"	150	Brown	Medium	High School	17 yrs. 10 mos. 11 days

MALE MEMBERS

CLL

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253	3254	3255	3256	3257	
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--

HISTORY

Sup-
dive

last outside history

None
 Missouri
 .
 .
 .
 .
 Coal Mines - 20 yrs.
 Railroad
 Coal Mines - 15 yrs.
 .
 Supreme Industries - 9 yrs.
 Coal Mines - 20 yrs.
 .
 Slave John 2 yrs.
 None
 Coal Mines - 6 yrs.
 Wooden Mills - 1 yr.
 Felt Co. - 1 yr.
 Jager Pulp - 3 yrs.
 Coal Mines 5 yrs.
 Power Light Co. - 5 yrs.
 Hoofing Co. - 8 yrs.
 Coal Mines - 20 yrs.
 Chas. Chemical - 3 yrs.
 Coal Mines - 1 yr.
 Railroad
 M.L. Chappard
 Missouri
 Coal Mines - 3 yrs.
 .
 Paper Co. 9 yrs.
 Farmer
 Contractor
 Coal Mines - 15 yrs.
 .
 Milk Mill - 10 yrs.
 Wooden Mills - 5 yrs.
 Singer Sewing Mach. 4 yrs.

St. Louis American

Service	length of	length of	Department
None	18 yrs.	None	-Fishing "B"
None	20	"	-F/H Helper "C"
"	3	3 yrs.	-Lower "A"
"	11	11	"
"	4	4	"
"	2	2	"
"	5	5	- New Room-C
None	9	None	-Clutch Pacing
None	11	11 yrs.	-Just Name "A"
"	6	6	-Finishing "A"
"	8	8	-Machine Room-F
"	5	None	-Clutch Pacing
None	20	"	-Receiving "B"
"	3	"	- Pipe Room "C"
"	10	"	- Mechanist
None	25	"	- Fishing "B"
None	8	8 yrs.	- App. Eastern "D"
None	20	20	-New Room "C"
"	9	None	-Laboratory-C
"	2	"	-Shipping-F
None	10	10 yrs.	-Fire Pelt "C"
"	3	3	-Machine Room-F
"	7	7	-Cement - "C"
"	17	None	-Sample Dept.-J
"	20	20 yrs.	-Cement - C
"	3	3	-Machine Room - F
"	11	11	-Shoreman - J
"	20	3	-Fire Room - J
"	9	None	-Glove Dept-A
"	3	3 yrs.	-Dying - A
"	2	None	-Fishing "B"
"	9	9 yrs.	-Machine Room-F
"	9	None	-Shedding "A"
"	19	19 yrs.	-Finishing-A
"	6	6	-Drying-A
"	3	3	-Super-A
"	7	7	-Lower-A
"	6	6	"
"	13	13	-Fg. A Ship "C"

[illegible]

Room	Area	Volume	Length of	Width of	Height of
Room 1	100 sq. ft.	100 cu. ft.	10 ft.	10 ft.	10 ft.
Room 2	200 sq. ft.	200 cu. ft.	20 ft.	20 ft.	20 ft.
Room 3	300 sq. ft.	300 cu. ft.	30 ft.	30 ft.	30 ft.
Room 4	400 sq. ft.	400 cu. ft.	40 ft.	40 ft.	40 ft.
Room 5	500 sq. ft.	500 cu. ft.	50 ft.	50 ft.	50 ft.
Room 6	600 sq. ft.	600 cu. ft.	60 ft.	60 ft.	60 ft.
Room 7	700 sq. ft.	700 cu. ft.	70 ft.	70 ft.	70 ft.
Room 8	800 sq. ft.	800 cu. ft.	80 ft.	80 ft.	80 ft.
Room 9	900 sq. ft.	900 cu. ft.	90 ft.	90 ft.	90 ft.
Room 10	1000 sq. ft.	1000 cu. ft.	100 ft.	100 ft.	100 ft.

270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500

1. LOZAR PHOLO
2. FINESTREHOY
3. PANNSTYER
4. FLICE TOCK
5. FURZ ZYK
6. FURZ TOYETT
7. JOSEPHINE KOTKOWSKI
8. FURZ FRANCE
9. JOHANNES DUNOUGH
10. FILLIP CANNON
11. RYAN KILICKER
12. ARIY TOCCA
13. ROSENE COOPER
14. FORTUNE SORIANO
15. MARY MARRICA
16. MARY CANNICK
17. MARY PIVOL
18. JOHANN PUCKALICK
19. STEVE KNYZ
20. JOHANN GASTY
21. MARY STEPHEN
22. MARY KROBISH
23. STEVE OLEN
24. MARY FREININGER
25. MARY PANTERO
26. JOHANN BIZONY
27. JOHANN LIZZY
28. JOHANN SOPEL
29. JOHANN LODISH
30. JOHANN KLOTHWANSKI
31. MARY LESHINSKY
32. MARY ROBERTY
33. MARY KADNICK
34. MARY JAMES
35. MARY HAYES
36. JOHN VAN NEST
37. JOHN HAYES
38. MARY LIZZY
39. MARY KROBISH
40. MARY STEPHEN
41. MARY KILICKER
42. MARY PIVOL
43. MARY CANNICK
44. MARY MARRICA
45. MARY TOCCA
46. MARY COOPER
47. MARY SORIANO
48. MARY MARRICA
49. MARY CANNICK
50. MARY PIVOL
51. MARY KILICKER
52. MARY TOCCA
53. MARY COOPER
54. MARY SORIANO
55. MARY MARRICA
56. MARY CANNICK
57. MARY PIVOL
58. MARY KILICKER
59. MARY TOCCA
60. MARY COOPER
61. MARY SORIANO
62. MARY MARRICA
63. MARY CANNICK
64. MARY PIVOL
65. MARY KILICKER
66. MARY TOCCA
67. MARY COOPER
68. MARY SORIANO
69. MARY MARRICA
70. MARY CANNICK
71. MARY PIVOL
72. MARY KILICKER
73. MARY TOCCA
74. MARY COOPER
75. MARY SORIANO
76. MARY MARRICA
77. MARY CANNICK
78. MARY PIVOL
79. MARY KILICKER
80. MARY TOCCA
81. MARY COOPER
82. MARY SORIANO
83. MARY MARRICA
84. MARY CANNICK
85. MARY PIVOL
86. MARY KILICKER
87. MARY TOCCA
88. MARY COOPER
89. MARY SORIANO
90. MARY MARRICA
91. MARY CANNICK
92. MARY PIVOL
93. MARY KILICKER
94. MARY TOCCA
95. MARY COOPER
96. MARY SORIANO
97. MARY MARRICA
98. MARY CANNICK
99. MARY PIVOL
100. MARY KILICKER
101. MARY TOCCA
102. MARY COOPER
103. MARY SORIANO
104. MARY MARRICA
105. MARY CANNICK
106. MARY PIVOL
107. MARY KILICKER
108. MARY TOCCA
109. MARY COOPER
110. MARY SORIANO
111. MARY MARRICA
112. MARY CANNICK
113. MARY PIVOL
114. MARY KILICKER
115. MARY TOCCA
116. MARY COOPER
117. MARY SORIANO
118. MARY MARRICA
119. MARY CANNICK
120. MARY PIVOL
121. MARY KILICKER
122. MARY TOCCA
123. MARY COOPER
124. MARY SORIANO
125. MARY MARRICA
126. MARY CANNICK
127. MARY PIVOL
128. MARY KILICKER
129. MARY TOCCA
130. MARY COOPER
131. MARY SORIANO
132. MARY MARRICA
133. MARY CANNICK
134. MARY PIVOL
135. MARY KILICKER
136. MARY TOCCA
137. MARY COOPER
138. MARY SORIANO
139. MARY MARRICA
140. MARY CANNICK
141. MARY PIVOL
142. MARY KILICKER
143. MARY TOCCA
144. MARY COOPER
145. MARY SORIANO
146. MARY MARRICA
147. MARY CANNICK
148. MARY PIVOL
149. MARY KILICKER
150. MARY TOCCA
151. MARY COOPER
152. MARY SORIANO
153. MARY MARRICA
154. MARY CANNICK
155. MARY PIVOL
156. MARY KILICKER
157. MARY TOCCA
158. MARY COOPER
159. MARY SORIANO
160. MARY MARRICA
161. MARY CANNICK
162. MARY PIVOL
163. MARY KILICKER
164. MARY TOCCA
165. MARY COOPER
166. MARY SORIANO
167. MARY MARRICA
168. MARY CANNICK
169. MARY PIVOL
170. MARY KILICKER
171. MARY TOCCA
172. MARY COOPER
173. MARY SORIANO
174. MARY MARRICA
175. MARY CANNICK
176. MARY PIVOL
177. MARY KILICKER
178. MARY TOCCA
179. MARY COOPER
180. MARY SORIANO
181. MARY MARRICA
182. MARY CANNICK
183. MARY PIVOL
184. MARY KILICKER
185. MARY TOCCA
186. MARY COOPER
187. MARY SORIANO
188. MARY MARRICA
189. MARY CANNICK
190. MARY PIVOL
191. MARY KILICKER
192. MARY TOCCA
193. MARY COOPER
194. MARY SORIANO
195. MARY MARRICA
196. MARY CANNICK
197. MARY PIVOL
198. MARY KILICKER
199. MARY TOCCA
200. MARY COOPER
201. MARY SORIANO
202. MARY MARRICA
203. MARY CANNICK
204. MARY PIVOL
205. MARY KILICKER
206. MARY TOCCA
207. MARY COOPER
208. MARY SORIANO
209. MARY MARRICA
210. MARY CANNICK
211. MARY PIVOL
212. MARY KILICKER
213. MARY TOCCA
214. MARY COOPER
215. MARY SORIANO
216. MARY MARRICA
217. MARY CANNICK
218. MARY PIVOL
219. MARY KILICKER
220. MARY TOCCA
221. MARY COOPER
222. MARY SORIANO
223. MARY MARRICA
224. MARY CANNICK
225. MARY PIVOL
226. MARY KILICKER
227. MARY TOCCA
228. MARY COOPER
229. MARY SORIANO
230. MARY MARRICA
231. MARY CANNICK
232. MARY PIVOL
233. MARY KILICKER
234. MARY TOCCA
235. MARY COOPER
236. MARY SORIANO
237. MARY MARRICA
238. MARY CANNICK
239. MARY PIVOL
240. MARY KILICKER
241. MARY TOCCA
242. MARY COOPER
243. MARY SORIANO
244. MARY MARRICA
245. MARY CANNICK
246. MARY PIVOL
247. MARY KILICKER
248. MARY TOCCA
249. MARY COOPER
250. MARY SORIANO
251. MARY MARRICA
252. MARY CANNICK
253. MARY PIVOL
254. MARY KILICKER
255. MARY TOCCA
256. MARY COOPER
257. MARY SORIANO
258. MARY MARRICA
259. MARY CANNICK
260. MARY PIVOL
261. MARY KILICKER
262. MARY TOCCA
263. MARY COOPER
264. MARY SORIANO
265. MARY MARRICA
266. MARY CANNICK
267. MARY PIVOL
268. MARY KILICKER
269. MARY TOCCA
270. MARY COOPER
271. MARY SORIANO
272. MARY MARRICA
273. MARY CANNICK
274. MARY PIVOL
275. MARY KILICKER
276. MARY TOCCA
277. MARY COOPER
278. MARY SORIANO
279. MARY MARRICA
280. MARY CANNICK
281. MARY PIVOL
282. MARY KILICKER
283. MARY TOCCA
284. MARY COOPER
285. MARY SORIANO
286. MARY MARRICA
287. MARY CANNICK
288. MARY PIVOL
289. MARY KILICKER
290. MARY TOCCA
291. MARY COOPER
292. MARY SORIANO
293. MARY MARRICA
294. MARY CANNICK
295. MARY PIVOL
296. MARY KILICKER
297. MARY TOCCA
298. MARY COOPER
299. MARY SORIANO
300. MARY MARRICA
301. MARY CANNICK
302. MARY PIVOL
303. MARY KILICKER
304. MARY TOCCA
305. MARY COOPER
306. MARY SORIANO
307. MARY MARRICA
308. MARY CANNICK
309. MARY PIVOL
310. MARY KILICKER
311. MARY TOCCA
312. MARY COOPER
313. MARY SORIANO
314. MARY MARRICA
315. MARY CANNICK
316. MARY PIVOL
317. MARY KILICKER
318. MARY TOCCA
319. MARY COOPER
320. MARY SORIANO
321. MARY MARRICA
322. MARY CANNICK
323. MARY PIVOL
324. MARY KILICKER
325. MARY TOCCA
326. MARY COOPER
327. MARY SORIANO
328. MARY MARRICA
329. MARY CANNICK
330. MARY PIVOL
331. MARY KILICKER
332. MARY TOCCA
333. MARY COOPER
334. MARY SORIANO
335. MARY MARRICA
336. MARY CANNICK
337. MARY PIVOL
338. MARY KILICKER
339. MARY TOCCA
340. MARY COOPER
341. MARY SORIANO
342. MARY MARRICA
343. MARY CANNICK
344. MARY PIVOL
345. MARY KILICKER
346. MARY TOCCA
347. MARY COOPER
348. MARY SORIANO
349. MARY MARRICA
350. MARY CANNICK
351. MARY PIVOL
352. MARY KILICKER
353. MARY TOCCA
354. MARY COOPER
355. MARY SORIANO
356. MARY MARRICA
357. MARY CANNICK
358. MARY PIVOL
359. MARY KILICKER
360. MARY TOCCA
361. MARY COOPER
362. MARY SORIANO
363. MARY MARRICA
364. MARY CANNICK
365. MARY PIVOL
366. MARY KILICKER
367. MARY TOCCA
368. MARY COOPER
369. MARY SORIANO
370. MARY MARRICA
371. MARY CANNICK
372. MARY PIVOL
373. MARY KILICKER
374. MARY TOCCA
375. MARY COOPER
376. MARY SORIANO
377. MARY MARRICA
378. MARY CANNICK
379. MARY PIVOL
380. MARY KILICKER
381. MARY TOCCA
382. MARY COOPER
383. MARY SORIANO
384. MARY MARRICA
385. MARY CANNICK
386. MARY PIVOL
387. MARY KILICKER
388. MARY TOCCA
389. MARY COOPER
390. MARY SORIANO
391. MARY MARRICA
392. MARY CANNICK
393. MARY PIVOL
394. MARY KILICKER
395. MARY TOCCA
396. MARY COOPER
397. MARY SORIANO
398. MARY MARRICA
399. MARY CANNICK
400. MARY PIVOL
401. MARY KILICKER
402. MARY TOCCA
403. MARY COOPER
404. MARY SORIANO
405. MARY MARRICA
406. MARY CANNICK
407. MARY PIVOL
408. MARY KILICKER
409. MARY TOCCA
410. MARY COOPER
411. MARY SORIANO
412. MARY MARRICA
413. MARY CANNICK
414. MARY PIVOL
415. MARY KILICKER
416. MARY TOCCA
417. MARY COOPER
418. MARY SORIANO
419. MARY MARRICA
420. MARY CANNICK
421. MARY PIVOL
422. MARY KILICKER
423. MARY TOCCA
424. MARY COOPER
425. MARY SORIANO
426. MARY MARRICA
427. MARY CANNICK
428. MARY PIVOL
429. MARY KILICKER
430. MARY TOCCA
431. MARY COOPER
432. MARY SORIANO
433. MARY MARRICA
434. MARY CANNICK
435. MARY PIVOL
436. MARY KILICKER
437. MARY TOCCA
438. MARY COOPER
439. MARY SORIANO
440. MARY MARRICA
441. MARY CANNICK
442. MARY PIVOL
443. MARY KILICKER
444. MARY TOCCA
445. MARY COOPER
446. MARY SORIANO
447. MARY MARRICA
448. MARY CANNICK
449. MARY PIVOL
450. MARY KILICKER
451. MARY TOCCA
452. MARY COOPER
453. MARY SORIANO
454. MARY MARRICA
455. MARY CANNICK
456. MARY PIVOL
457. MARY KILICKER
458. MARY TOCCA
459. MARY COOPER
460. MARY SORIANO
461. MARY MARRICA
462. MARY CANNICK
463. MARY PIVOL
464. MARY KILICKER
465. MARY TOCCA
466. MARY COOPER
467. MARY SORIANO
468. MARY MARRICA
469. MARY CANNICK
470. MARY PIVOL
471. MARY KILICKER
472. MARY TOCCA
473. MARY COOPER
474. MARY SORIANO
475. MARY MARRICA
476. MARY CANNICK
477. MARY PIVOL
478. MARY KILICKER
479. MARY TOCCA
480. MARY COOPER
481. MARY SORIANO
482. MARY MARRICA
483. MARY CANNICK
484. MARY PIVOL
485. MARY KILICKER
486. MARY TOCCA
487. MARY COOPER
488. MARY SORIANO
489. MARY MARRICA
490. MARY CANNICK
491. MARY PIVOL
492. MARY KILICKER
493. MARY TOCCA
494. MARY COOPER
495. MARY SORIANO
496. MARY MARRICA
497. MARY CANNICK
498. MARY PIVOL
499. MARY KILICKER
500. MARY TOCCA

1. LOZAR PHOLO
2. FINESTREHOY
3. PANNSTYER
4. FLICE TOCK
5. FURZ ZYK
6. FURZ TOYETT
7. JOSEPHINE KOTKOWSKI
8. FURZ FRANCE
9. JOHANNES DUNOUGH
10. FILLIP CANNON
11. RYAN KILICKER
12. ARIY TOCCA
13. ROSENE COOPER
14. FORTUNE SORIANO
15. MARY MARRICA
16. MARY CANNICK
17. MARY PIVOL
18. MARY KILICKER
19. MARY TOCCA
20. MARY COOPER
21. MARY SORIANO
22. MARY MARRICA
23. MARY CANNICK
24. MARY PIVOL
25. MARY KILICKER
26. MARY TOCCA
27. MARY COOPER
28. MARY SORIANO
29. MARY MARRICA
30. MARY CANNICK
31. MARY PIVOL
32. MARY KILICKER
33. MARY TOCCA
34. MARY COOPER
35. MARY SORIANO
36. MARY MARRICA
37. MARY CANNICK
38. MARY PIVOL
39. MARY KILICKER
40. MARY TOCCA
41. MARY COOPER
42. MARY SORIANO
43. MARY MARRICA
44. MARY CANNICK
45. MARY PIVOL
46. MARY KILICKER
47. MARY TOCCA
48. MARY COOPER
49. MARY SORIANO
50. MARY MARRICA
51. MARY CANNICK
52. MARY PIVOL
53. MARY KILICKER
54. MARY TOCCA
55. MARY COOPER
56. MARY SORIANO
57. MARY MARRICA
58. MARY CANNICK
59. MARY PIVOL
60. MARY KILICKER
61. MARY TOCCA
62. MARY COOPER
63. MARY SORIANO
64. MARY MARRICA
65. MARY CANNICK
66. MARY PIVOL
67. MARY KILICKER
68. MARY TOCCA
69. MARY COOPER
70. MARY SORIANO
71. MARY MARRICA
72. MARY CANNICK
73. MARY PIVOL
74. MARY KILICKER
75. MARY TOCCA
76. MARY COOPER
77. MARY SORIANO
78. MARY MARRICA
79. MARY CANNICK
80. MARY PIVOL
81. MARY KILICKER
82. MARY TOCCA
83. MARY COOPER
84. MARY SORIANO
85. MARY MARRICA
86. MARY CANNICK
87. MARY PIVOL
88. MARY KILICKER
89. MARY TOCCA
90. MARY COOPER
91. MARY SORIANO
92. MARY MARRICA
93. MARY CANNICK
94. MARY PIVOL
95. MARY KILICKER
96. MARY TOCCA
97. MARY COOPER
98. MARY SORIANO
99. MARY MARRICA
100. MARY CANNICK

GENERAL INFORMATION			PERSONAL DATA			CAREER HISTORY			EDUCATION & TRAINING			ADDITIONAL INFORMATION		
NAME	AGE	SEX	DATE OF BIRTH	HEIGHT	WEIGHT	EDUCATION	TRAINING	EXPERIENCE	DEPARTMENT	POSITION	DATE	REMARKS	STATUS	REMARKS
197 E. C. GARDNER	34	M	1914	5'8"	160	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
198 G. A. BAKER	32	M	1916	5'6"	150	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
199 L. J. C. GARDNER	31	M	1917	5'7"	155	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
200 J. A. BAKER	30	M	1918	5'5"	145	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
201 W. J. C. GARDNER	29	M	1919	5'4"	140	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
202 S. J. C. GARDNER	28	M	1920	5'3"	135	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
203 G. A. BAKER	27	M	1921	5'2"	130	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
204 J. A. BAKER	26	M	1922	5'1"	125	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
205 S. J. C. GARDNER	25	M	1923	5'0"	120	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
206 J. A. BAKER	24	M	1924	4'9"	115	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
207 W. J. C. GARDNER	23	M	1925	4'8"	110	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
208 S. J. C. GARDNER	22	M	1926	4'7"	105	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
209 J. A. BAKER	21	M	1927	4'6"	100	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
210 W. J. C. GARDNER	20	M	1928	4'5"	95	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
211 S. J. C. GARDNER	19	M	1929	4'4"	90	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
212 J. A. BAKER	18	M	1930	4'3"	85	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
213 W. J. C. GARDNER	17	M	1931	4'2"	80	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
214 S. J. C. GARDNER	16	M	1932	4'1"	75	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
215 J. A. BAKER	15	M	1933	4'0"	70	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
216 W. J. C. GARDNER	14	M	1934	3'9"	65	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
217 S. J. C. GARDNER	13	M	1935	3'8"	60	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
218 J. A. BAKER	12	M	1936	3'7"	55	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
219 W. J. C. GARDNER	11	M	1937	3'6"	50	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
220 S. J. C. GARDNER	10	M	1938	3'5"	45	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
221 J. A. BAKER	9	M	1939	3'4"	40	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
222 W. J. C. GARDNER	8	M	1940	3'3"	35	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
223 S. J. C. GARDNER	7	M	1941	3'2"	30	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
224 J. A. BAKER	6	M	1942	3'1"	25	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
225 W. J. C. GARDNER	5	M	1943	3'0"	20	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
226 S. J. C. GARDNER	4	M	1944	2'9"	15	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
227 J. A. BAKER	3	M	1945	2'8"	10	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
228 W. J. C. GARDNER	2	M	1946	2'7"	5	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
229 S. J. C. GARDNER	1	M	1947	2'6"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
230 J. A. BAKER	0	M	1948	2'5"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
231 W. J. C. GARDNER	0	M	1949	2'4"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
232 S. J. C. GARDNER	0	M	1950	2'3"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
233 J. A. BAKER	0	M	1951	2'2"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
234 W. J. C. GARDNER	0	M	1952	2'1"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
235 S. J. C. GARDNER	0	M	1953	2'0"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
236 J. A. BAKER	0	M	1954	1'9"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
237 W. J. C. GARDNER	0	M	1955	1'8"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
238 S. J. C. GARDNER	0	M	1956	1'7"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
239 J. A. BAKER	0	M	1957	1'6"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
240 W. J. C. GARDNER	0	M	1958	1'5"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
241 S. J. C. GARDNER	0	M	1959	1'4"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
242 J. A. BAKER	0	M	1960	1'3"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
243 W. J. C. GARDNER	0	M	1961	1'2"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
244 S. J. C. GARDNER	0	M	1962	1'1"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
245 J. A. BAKER	0	M	1963	1'0"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
246 W. J. C. GARDNER	0	M	1964	0'9"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
247 S. J. C. GARDNER	0	M	1965	0'8"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
248 J. A. BAKER	0	M	1966	0'7"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
249 W. J. C. GARDNER	0	M	1967	0'6"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
250 S. J. C. GARDNER	0	M	1968	0'5"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
251 J. A. BAKER	0	M	1969	0'4"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
252 W. J. C. GARDNER	0	M	1970	0'3"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
253 S. J. C. GARDNER	0	M	1971	0'2"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
254 J. A. BAKER	0	M	1972	0'1"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937
255 W. J. C. GARDNER	0	M	1973	0'0"	0	High School	None	1935-1937	General	Operator	1937	Good	Active	1937

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496

CN.	REF.	ADULTERIAL CASE			HISTORY			REMARKS		
		NAME	AGE	SEX	DATE	TIME	PLACE	REMARKS	REMARKS	REMARKS
317	11	in 1942	1942	1942	1942	1942	1942	1942	1942	1942
318	12	in 1943	1943	1943	1943	1943	1943	1943	1943	1943
319	13	in 1944	1944	1944	1944	1944	1944	1944	1944	1944
320	14	in 1945	1945	1945	1945	1945	1945	1945	1945	1945
321	15	in 1946	1946	1946	1946	1946	1946	1946	1946	1946
322	16	in 1947	1947	1947	1947	1947	1947	1947	1947	1947
323	17	in 1948	1948	1948	1948	1948	1948	1948	1948	1948
324	18	in 1949	1949	1949	1949	1949	1949	1949	1949	1949
325	19	in 1950	1950	1950	1950	1950	1950	1950	1950	1950
326	20	in 1951	1951	1951	1951	1951	1951	1951	1951	1951
327	21	in 1952	1952	1952	1952	1952	1952	1952	1952	1952

REMARKS - 1942 - 1943 - 1944 - 1945 - 1946 - 1947 - 1948 - 1949 - 1950 - 1951 - 1952

March 27, 1933

Mr. E. J. Niginbotham, President,
W. A. Case & Son Mfg. Co.,
Buffalo, N. Y.

Dear Mr. Niginbotham:

Thank you very much indeed for your letter of March 25, enclosing copy of the one you wrote to Dr. Panenast. I am very glad to learn that you were successful in this suit. The silicosis damage suit situation is getting more serious daily and it is a matter of tremendous importance to have a jury recognize the value of a film, backed by really first class expert testimony.

With best regards,

Sincerely yours,

A. J. Lanza, M.D.
Assistant Medical Director

002655

June 27, 1932

Dr. R. R. Sayers, Chief Surgeon,
United States Bureau of Mines,
Washington, D. C.

Dear Dr. Sayers:

Herewith are the two copies of the co-operative
agreement between the Department of Mines and the Metropolitan
Life Insurance Company, signed by Mr. Ecker, President.

Sincerely yours,

Assistant Medical Director

7-1-22

COOPERATIVE AGREEMENT
between
THE DEPARTMENT OF COMMERCE
and
METROPOLITAN LIFE INSURANCE COMPANY

This agreement made by and between the Department of Commerce of the United States, acting through the Bureau of Mines (hereinafter referred to as the "Bureau") and Metropolitan Life Insurance Company of New York, N. Y. (hereinafter referred to as the "Company"):

WITNESSETH:

The Bureau in consideration of the covenants herein made by the Company agrees to continue and extend its studies now being conducted at Fisher, Oklahoma, and Pittsburgh, Pennsylvania, for the study and demonstration of respiratory diseases of employees of mining companies.

The Bureau agrees to furnish all modern apparatus, supplies, technical staff, laboratory equipment, supervision, and advice necessary to conduct a clinic of sufficient capacity to make careful examination of all such employees submitting themselves for examination at least once during each twelve months period of this contract.

The Bureau agrees that in addition to furnishing the equipment mentioned above it will expand or cause to be expended in such work the cash sum of \$8,000 annually except as provided herein.

This work shall be carried on under the supervision and direction of the Bureau in a manner satisfactory to both parties hereto and no person shall be retained in such work that is objectionable to the Company or its officers.

The plan of the investigation will be in accordance with the attached tentative outline. The plan may be changed by mutual consent of both parties to this agreement.

Publications of the results of this investigation shall be under the control of the Director of the Bureau. All manuscripts, before publication, shall be submitted to the Company for comment and criticism. Due acknowledgment will be made in the publications of the cooperation of the Company.

The Company, in consideration of the proposals of the Bureau made herein, agrees to provide a fund of \$8,000, to be used to help defray the expenses and extension of such studies. Payments from this fund shall be made by the Company upon certificate of the Bureau in a manner as the parties hereto may from time to time agree.

Upon approval of the Secretary of the Department of Commerce, this agreement shall be effective from July 1, 1932, and shall remain in force and effect until June 30, 1933. If the said Bureau of the Department of Commerce shall in writing during the month of July, 1933, notify the Company of their intention and desire to continue such studies for an additional twelve month period, then and in such event this agreement shall be considered as renewed for such further period of time, expiring on June 30, 1934, and the Company will pay toward such expense for such twelve month period the sum of \$8,000 in the manner as hereinbefore provided.

In witness whereof the parties have hereunto set their hands by their duly authorized officers this first day of July, 1932.

WITNESSES:

BUREAU OF MINES:

By Edward Turner
Director

METROPOLITAN LIFE INSURANCE COMPANY

By W. E. Jones
Title

DEPARTMENT OF COMMERCE

Approved July 2, 1932.

W. F. Morgan
Secretary

August 14, 1937

Dr. Leroy S. Gardner, Director,
Saranac Laboratory for the Study of Tuberculosis,
7 Church Street,
Saranac Lake, N. Y.

Dear Roy:

Herewith is a copy of a letter I have just received from Dr. Sayers, which is self-explanatory. I presume you have a copy of the South African nomenclature, so I am not enclosing that.

I wish you would write me right away about the following:

The St. Joseph Lead Company has mines and a smelter at Bonne Terre, about forty miles south of St. Louis on the Mississippi River. These are lead mines, the ore being lead sulphide, with no history of ever having had cases of lead poisoning, except occasionally in the smelter. The rock is mostly limestone, with not more than 3% silica, of which only 2% or less is free silica. I have never considered that there is any silicosis hazard in this particular area.

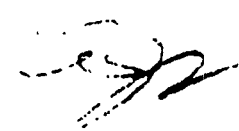
These people are faced with several million dollars worth of law suits, alleging silicosis. Company officials are inclined to think that when and if these are thrown out, they may lay their claims to lead poisoning. Anything is possible with the wholesale fraud that is going on nowadays.

On account of various matters which I do not need to detail, our relations with this Company are not entirely cordial, although we carry their Group Insurance. On the 30th of this month, the Vice President and Treasurer is coming in to see me with his Company doctor. I am not quite sure what they want but I think they are probably looking for help, the same as the other companies. Do you wish me to refer them to you and Don? I have always found them a decent group and right now they have their backs to the wall. If things work out, it might even be worth your while to come down to New York to see them, provided you would care to take this on.

With best regards,

Sincerely yours,

A. J. Benson
Secretary


Dr. A.J. Lanza
Assistant Medical Director

Thanks for your memorandum of August 31st with reference to the Fisher Clinic Reports. From the figures which you quote, there is every indication that the Clinic has been worthwhile in the improvement of silicosis cases, but it will be most difficult to determine what effect this would have on any future Group Life Insurance. Possibly the closing of a large majority of the mines and starting all over again with new employees when they reopen, would make it possible to issue the Group Life Insurance successfully, but how this is to be determined except by experience is something I cannot see.

Certainly based on our past experience we would not want to accept this business, and if we did so now, an almost prohibitive rate would be necessary. We will determine the question however if and when the miners do return to work, and if and when they desire Group Life coverage. The experience in any event would be greatly improved by the fact that beginning today, September 1st, we are no longer issuing Group Life Policies with total and permanent disability provision.


Assistant Actuary

September 1, 1932
EOD/

BENDIX PRODUCTS CORPORATION

SUBSIDIARY OF BENDIX AVIATION CORPORATION

GENERAL OFFICES AND PLANT

SOUTH BEND, INDIANA

November 17, 1932

ag

Doctor Lanza
Assistant Medical Director
Metropolitan Life Insurance Co.
New York, New York

Dear Doctor Lanza:

Recently I have had X-Rays taken of four individuals exposed to silicosis and have had some varying interpretations as to pathology given by various local X-Ray men. Consequently, if it is your wish I would be very glad to send the X-Rays along with a brief history of exposure and any complaints that the patients may have in addition to chest expansion.



Should there be any additional information that you wish let me know and I will try to include same.

Thanking you again for your courtesy while in New York City and in regard to the X-Ray pictures you sent me our local X-Ray men insist that it is a case of healed military tuberculosis in spite of the history you gave me on the case.

Yours very truly,

K. Kelly

Director of Personnel
Bendix Products Corp.

KS:HM

Wausau, Wis.
 J. J. Lanza
 Metropolitan Life Insurance Co.
 140 Madison Avenue
 New York City

Wausau, Wis.
June 11, 1917

DIRECTOR
 Wausau, Wis.
 J. J. Lanza
 Metropolitan Life Insurance Co.
 140 Madison Avenue
 New York City

WAUSAU, WIS.

Dr. A. J. Lanza
 Metropolitan Life Insurance Co.
 140 Madison Avenue
 New York City

June 11, 1917

Dear Dr. Lanza:

At our meeting in Milwaukee I entirely overlooked bringing up
 the subject of checking absentees from employment and I am
 wondering if you could write me at once telling me how that
 situation is handled in Picher, Oklahoma.

I have been rather under the impression that if it eventually
 is decided that we have to organize an examination clinic our-
 selves, that that clinic could also be used as the base for
 the checking of absentees, first by having all absentees re-
 ported to the clinic, and having them then checked by some em-
 ployee on a motorcycle and if absence is due to illness then
 send a doctor out on the case. If you will give me this in-
 formation it will certainly be appreciated.

Yours very truly,



Manager, Claim Department

Enclosure 11

June 14, 1912

Mr. Norman Scott, Group Supervisor,
Metropolitan Life Insurance Company,
525-529 Bankers Building,
Milwaukee, Wis.

Dear Norman:

Herewith is a carbon copy of a letter which I have just written to Mr. Knoble of the Employers Mutual Liability Insurance Company. I would prefer that they hold this letter confidential among their own group.

I am sending you a copy not only for your own sight but because you might wish to give it to Mr. Falk. Probably the Employers Mutual will show it to him anyway. While the situation in Milwaukee is not strictly comparable to Picher, nevertheless I thought it might be worth while for them to understand some of the difficulties that might arise. I do not wish to give anybody concern, nor do I think there is any cause for alarm.

With best regards,

Sincerely yours,

Assistant Medical Director

June 14, 1932

PERSONAL

Mr. B. E. Knechle, Manager,
Claim Department,
Employers Mutual Liability Insurance Company,
Wausau, Wisconsin.

Dear Mr. Knechle:

With reference to your letter of June 11, the Fisher Clinic was not concerned in any way with absenteeism. Its functions were limited to examining applicants for employment, annual physical examination of those employed, and the treatment of venereal disease. The matter of absenteeism was handled directly by the various companies as is customary everywhere.

While I appreciate your comments in regard to checking up absenteeism and realize that from the viewpoint of efficiency, it would be the natural thing to do, I personally am inclined to think that from the viewpoint of expediency it would be well to consider very carefully the advantages and disadvantages of the plan you mention. The history of the development of medical service in industry in the past ten or fifteen years is full of many instances where bitter resentment has been aroused by the utilization of plant medical departments for non-medical purposes.

The two things that have aroused the most resentment and have caused the most trouble are (1) using the physical examination to get rid of undesirable and thus maintaining a black list and (2) using the medical department or its personnel to check absenteeism. In regard to the first item, it is true that the accusation against various industrial corporations that they used the physical examination as a black list was in many cases unfounded. In other cases, particularly in the West, it was true and it not only caused a good deal of trouble but the ill effects are felt to this day in these localities where this was done. In regard to the second item, it has been and possibly still is the practice in certain large corporations to utilize visiting nursing to check up absenteeism. This also provokes intense resentment and practically nullifies the proper functioning of the nurses and the doctors. In our own Metropolitan Nursing Service, where this is extended to group policyholders, we have to be constantly on our guard that the employer does not attempt to utilize our nursing service as a check on absenteeism.

I am discussing these two items with you because I think that in your own interests it will probably be highly important that there never be any doubt in the minds of the Industrial Commission or of the labor interests that your clinic is exactly what it pretends to be, namely a method of protecting the working man and his employer from the hazards of occupational diseases with the fact always permanently to the fore that it is as much for the benefit of the employer as it is for the employer.

Mr. B. L. Kuehls - 2

As long as the clinic is taking physical examinations of applicants for employment, there is no reason that I can see why it should not make a complete examination as is the generally accepted practice throughout the country. It would be well, I think, to give serious thought to the matter of filing duplicate copies of physical examination records in any office outside of the clinic office. At one time, early in the history of Fisher, there was a considerable uproar through the district because the rumor was spread around that the clinic was in reality a subterfuge by which the insurance company sought to get information as to the physical condition of the people in the district, so that this information might be on file in the event that they at any time applied for life insurance. The matter was so absurd that it was difficult to believe that anybody could take it seriously. Yet we had to go to considerable pains to point out that all the records stayed in the clinic at Fisher and that the cost of hiring sufficient clerks to compile them for insurance purposes would make such a procedure impossible, even if it had ever entered our heads.

In other words, you have to be ready to forestall all sorts of critical comments however far-fetched or unreasonable. The filing of duplicate records in the office of an insurance company might readily lend itself to false constructions.

Trusting that these comments will not confuse you and with best regards, I am

Sincerely yours,

Assistant Medical Director

W. J. HADGE, President & General Manager

DIRECTORS

SEN. ALEXANDER WAUSAU

WALTER A. L. CARR, Chairman

CHAS. E. BOYD, Appleton

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

W. J. HADGE, President

**EMPLOYERS
MUTUAL LIABILITY
INSURANCE CO.
OF WISCONSIN**

WAUSAU, WIS.

MILWAUKEE BRANCH OFFICE
800 EMPIRE BUILDING PHONE DALY 3441

MILWAUKEE, WIS.
June 18, 1932

Dr. A. J. Lanza
Metropolitan Life Ins. Co.
New York, N. Y.

Dear Doctor:

You are, of course, in a great measure acquainted with the work our company is doing here in Wisconsin in connection with the silicosis problem, especially in the foundry industry.

Our dust counting laboratory, of which I have been put in charge, is functioning and the demands on us for dust counts will keep us working at top speed for a long time to come.

However, from the standpoint of the protection of the health of the workers from this dust hazard it has naturally been but a short step to force us to the conclusion that applicants for employment in these dusty industries would have to be subjected to a complete physical examination before entering the employment and thereafter have periodic check-up examinations to detect in its very earliest stages evidence of silicosis with a resultant shifting of employment.

We have, therefore, practically come to the conclusion that an examining department of our company will have to be established to take care of this additional work modeled after the co-operative clinic which is maintained at Fisher, Oklahoma by the U.S. Bureau of Mines, the Metropolitan Life Insurance Company, and the mine operators. We do not, however, expect to treat any employees as is done there.

We feel that our company will have to organize this department, underwrite the organization expense, and maintain it subject to the advice and council of an advisory committee of from three to five outstanding medical men.

We plan to make this service available not only to our own policyholders but to employers generally in the dusty trades, especially the metal trades industry.

May we have an expression from you by return mail as to whether you do not feel that this move on our part coupled with our laboratory will in a great measure tend to minimize this dust hazard to the workers in these dusty trades?

Employers Mutual
Liability Ins. Co.

DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

McGILL UNIVERSITY

MONTREAL,

October 11, 1932.

N.L. Burnette, Esq.,
Metropolitan Life Insurance Co.,
Ottawa, Ont.

Dear Mr. Burnette:

You have asked me to let you have a statement regarding industrial hygiene at McGill in time for the American Public Health Association meeting this month.

As you know, I came to Montreal in August, 1927 to take charge of the industrial hygiene work at McGill. The first activity was the creation of the Industrial Clinic at the Montreal General Hospital. It was thought at the time that the best point of contact with industry was through a clinic to which cases of occupational disease might be sent for investigation and treatment. A considerable number of such cases were directed to the Clinic, particularly cases of lead poisoning, and contact was made with the industries from which they came. One plant with an exceptionally severe lead hazard actually erected a new building, partly, I believe, on our recommendation, and several plants have improved their working conditions, by installing various ventilating devices to carry away poisonous dusts and fumes. Several papers have been published on the subject of lead poisoning, copies of which are enclosed.

The occupational poisoning work has been considered a less important activity than others, particularly on account of the fact that the number of cases of occupational poisoning is small compared with other diseases which affect industrial workers. All evidence points to the fact that industrial workers suffer in the main from the same diseases which affect the general population, and that preventive medicine for industrial workers should be directed towards those diseases and not especially towards the so-called occupational diseases. For this reason, it was thought that a valuable service could be rendered industry in particular, and the community in general, if industrial health services could be established in the larger industries, so that the health of the workers could be brought under the immediate supervision of a doctor and a nurse.

A good deal of time was devoted to making contact with industries which, it was thought, would be interested in a scheme of this nature. Considerable success was achieved at first and five plants created health departments immediately under our supervision, while four or five other concerns were stimulated to establish medical departments. These medical departments have all given satisfaction and are still operating, but the industrial depression during the last three years has made progress in this work very difficult.

Industrial Dental Clinic

In connection with the work of the industrial health services,

PRODUCED CIP 10113
MET0357

an industrial dental clinic was established, the activities of which are recorded in an attached re-print. This clinic has financed itself entirely and is having a certain amount of difficulty now in making both ends meet.

Industrial Medical Association of the Province of Quebec

As an outcome of the industrial hygiene work, the Industrial Medical Association, P.Q., was established in 1928. This is a bilingual Association which carries on independent activities, and is also considered a branch of the Province of Quebec Medical Association. Doctors, Pennoyer, Mercier, St. Jaques, and Tees, have been the successive presidents, and Dr. Ward and I have served as secretary. The organization took an active part at the request of the Workmen's Compensation Commission, in drafting the tariff of the 1928 Workmen's Compensation Law, and has held meetings approximately bi-monthly since its organization.

Montreal Health Survey

The Industrial Hygiene Department co-operated with the Montreal Health Survey Committee and prepared the industrial hygiene section of the report.

Study of Asbestosis

In co-operation with the Metropolitan Life Insurance Company, a survey of two companies mining and milling asbestos, was made in July and September, 1930. Physical examination of some 150 men was made, together with chest X-rays, and an interesting state of affairs was disclosed, which was reported to Dr. M.J. Lanza of the Metropolitan Life Insurance Company, but to date permission has not been secured to publish the results of the study. ?

Lectures at McGill

Courses of lectures on industrial hygiene have been given every year to the third year medical students and graduate nurses, social workers and architects.

General Publicity

A number of public addresses have been given on the subject of industrial hygiene. Various papers have been prepared for publication or presentation at scientific meetings, most of which are enclosed.

I have been submitting reviews and editorials to the Canadian Medical Association Journal, and have also acted as joint editor with Dr. Cunningham of the Industrial Hygiene Section of the Canadian Public Health Association Journal.

A representation favouring the creation of Division of Industrial Hygiene in the Provincial Health Department, has been made to the Social Insurance Commission and the Province of Quebec, and this Commission has recommended such a Division to the Provincial Government.

PRODUCED BY OMNIS

Present Activities

The Industrial Clinic has been moved to the University under the immediate direction of Dr. Vance Ward. The supervision of the plant medical departments continues, and in addition, two new activities have been started and are now in operation: (1) a study of mercury poisoning and (2) an industrial health survey;

- (1) Our attention was drawn a year or so ago to the mercury hazard in one of the plants outside the City, and also to the fact that a relatively small amount of experimental work had been done on industrial mercury poisoning. The co-operation of the Department of Pharmacology at McGill was obtained and an experimental study with dogs is now in progress to ascertain the minimum permissible concentration of mercury in air. It is anticipated that a publication of this study will shortly be ready. This study is being financed entirely from the Industrial Hygiene funds. (Note: Study on safety. 4 years 500 per A)
Rough 2400
- (2) In co-operation with the Canadian Tuberculosis Association, the Provincial Health Department, and the Department of Industrial Hygiene at McGill, a study has been started with particular reference to tuberculosis in industrial workers, but also with reference to general health. Some 2,000 workers in three companies have already received a complete physical examination, with chest X-rays, and it is hoped to continue this survey so as to include 5,000 employees in different occupations. This survey has been under way for a year, and is being financed, partly by the Provincial Health Department, partly by the industries concerned, and partly by ourselves.

The \$25,000 promised by the Metropolitan Life Insurance has all been paid, and some \$4,000 is left to carry on the work. We are in hopes that the mercury study can be completed within this appropriation, but it will not be possible to finish the industrial health survey unless additional funds are forthcoming.

An activity which we have been endeavouring to establish for some years, is a co-operative health service to plants too small to provide a complete service of their own. An endeavour was made to get this service under way, financed by the companies themselves, but various difficulties presented, chief of which was the scepticism of the employers of its practicability. Since this scheme has been successful in Philadelphia and Hudson County, New Jersey, it seems likely that when better times return, if a demonstration were made perhaps in co-operation with the Royal Edward Institute, employers might be convinced of the desirability of such a scheme. We feel this would be of value to the community in general, and to the industries affected in particular, and might be of actual economic value to your own company.

These are the main facts in connection with the industrial hygiene work at McGill University.

Yours very truly,

Frank G. Pedley

Frank G. Pedley, M.D.

Assistant Professor, Industrial Hygiene.

FGP/IM.

PRODUCED IN ACCORDANCE WITH THE ACCESS TO INFORMATION ACT

0359

2. find 5000 cases
and 2200 to find

November 21, 1932

Dr. K. Selby,
Director of Personnel,
Bendix Products Corp.,
South Bend, Ind.

Dear Dr. Selby:

I am very glad to hear from you, and would very much like to see your X-Ray pictures. If you will send them along with such clinical information and history material as you have available, I will return them and let you know how they look to us.

I am not surprised at what you tell me about your local X-ray men. It seems to me that X-ray experts are very prone to forget the fact that after all they are only looking at shadows and the amount of information which you can get from looking at a shadow is very limited.

With best regards

Sincerely yours,

A. J. Lanza, M. D.
Assistant Medical Director

On Friday, December 2, I received a visit from Mr. W. J. Higinbotham, President of the W. A. Case & Son Manufacturing Company. Mr. Higinbotham was referred to me through the Group Division.

Mr. Higinbotham's company manufactures plumbing ware and while his office is in Buffalo, his plant is situated in Illinois, not far from Terre Haute, Indiana. He has had some damage suits for silicosis filed against him and was interested in learning what he could of this disease and the general situation in regard to damage suits of this nature.

I spent several hours with Mr. Higinbotham, giving him information as to the cause, nature, and progress of silicosis and also giving him the complete background of this situation which has arisen as a result of damage suits which have been filed against corporations in the last couple of years. I also inspected several films which Mr. Higinbotham had brought with him. These were films taken of the individuals who were suing his company and he was anxious to know whether they really had silicosis or not. I gave Mr. Higinbotham my diagnosis, based upon my reading of these films, but advised him to consult Dr. Pancoast in Philadelphia if he wished to get expert evidence that he could use in the defense of his damage suits.

I also arranged for him to meet Mr. Vandiver Brown, General Counsel of the Johns Fawcett Company, and also furnished him with literature dealing with his problems that he might study at his leisure.

We had lunch together with Mr. Kavanagh and Mr. Bates and there discussed some of the legal aspects of his problems. I gave Mr. Higinbotham an outline of the work of the Policyholders Service Bureau and then conducted him to Mr. Kavanagh's office.

December 8, 1932



A. J. Lums, M. D.
Assistant Medical Director

3025. In 1932, a study was conducted, in cooperation with Metropolitan Life, of 1140 workers at Manville's plant located in Manville, New Jersey.

Exhibit:

"Physical Examinations at Manville Factory, Manville, New Jersey" (1932).

Witness:

Barry Castleman.

"Physical Examinations at Manville Factory,
Manville, New Jersey" (1932).

See P 3025

Witness:

Barry Castleman.

3026. Dr. Lanza's unpublished 1932 Report on his study of the Manville, New Jersey, plant workers revealed that 327 of the 1140 workers evaluated -- 29% -- had signs of asbestosis. (The report labeled positive x-ray results for workers exposed to asbestos only at Manville "asbestosis", and called positive x-rays for those who had worked in dusty conditions before their Manville employment "pneumoconiosis"). Forty-three asbestosis cases were found in the Pipe Covering and Cement Departments: The report noted that those departments had the "highest percentage of asbestosis cases". Additionally, the report showed asbestos disease among a broad range of workers, including many in jobs which Manville classified as having no exposure to dust, including two machinists (Case Nos. 110 and 321), two steamfitters (Case Nos. 129 and 130), five packing and shipping department workers (Case Nos. 80, 88, 108, 172 and 183), a pipefitter (Case No. 312), a watchman (Case No. 319), a millwright (Case No. 324), a glove department worker (Case No. 185), and an outside laborer (Case No. 220). In addition, cases were found among those working in the departments where finished materials like firefelt, magnesia, or superex (materials containing only a minority percentage of asbestos) were cut and sawed (Case Nos. 25, 149, and 199 respectively). These findings, however, were never published.

Exhibit: