**Mining tenure and job duties differ among contemporary and historic underground coal miners with progressive massive fibrosis**

# Supplemental Files

**Supplemental Table 1: Assignment of National Coal Workers Autopsy Study (NCWAS) job codes to descriptions from the REDCap questionnaire**

|  |  |  |
| --- | --- | --- |
| **Original Job Description** | **NCWAS Job Code** | **Job Description from NCWAS** |
| **Underground**  |
| Continuous miner helper/operator | L003 | Continuous mining machine operators and helpers |
| General inside laborer | L039 | Work in underground coal mining |
| Shuttle car operator | L017 | Shuttle car operators |
| Scoop (car) operator | L024 | Supply and material men |
| Tractor operator/motorman | L010 | Motormen and brakemen |
| Jack setter | L009 | Work at face jacksetter |
| Roof bolter operator | L006 | Roof bolters and helpers |
| Electrician | L022 | Electricians and helpers wiremen mechanics general repairmen |
| Timberman | L005 | Timberman and helpers |
| Foreman | L030 | Superintendent assistant foremen section bosses grade foremen |
| Fireboss | L033 | Fire bosses mine examiners |
| Outby worker | L039 | Work in underground coal mining |
| Belt man | L011 | Beltmen |
| Faceman | L006 | Roof bolters and helpers |
| Equipment operator | L039 | Work in underground coal mining |

**Supplemental Table 2: Assignment of high-risk designated occupation (DOs) by National Coal Workers Autopsy Study (NCWAS) job code**

| **NCWAS Job Code** | **NCWAS Job Description** | **DO\*** | **Comments** |
| --- | --- | --- | --- |
| **Underground** |
| L000 | Development work in coal | Y |   |
| L002 | Cutting machine operators and helpers | Y |   |
| L003 | Continuous mining machine operators and helpers | Y |   |
| L004 | Hand loaders coal diggers general miners | Y |   |
| L005 | Timberman and helpers | Y |  |
| L006 | Roof bolters and helpers | Y | Designated area |
| L007 | Loading machine operators and helpers duckbill operators | Y |   |
| L008 | Drillers hand machine conveyor men shotfiers blasters slate work helpers | Y |   |
| L009 | Work at face jacksetter | Y |   |
| L010 | Motormen and brakemen | N |   |
| L011 | Beltmen | Y | Designated area |
| L012 | Boom boys | UNK |   |
| L014 | Couplers cap nippers sproggers and car droppers | N |   |
| L015 | Car dumpers shaft and slope attendants | N |   |
| L017 | Shuttle car operators | Y | Requires sampling |
| L019 | Work in underground transportation | N |   |
| L021 | Bonders trackmen and helpers | N |   |
| L022 | Electricians and helpers wiremen mechanics general repairmen | N |   |
| L024 | Supply and material men | N |   |
| L025 | Rock dusters | N |   |
| L026 | Ventilation men brattice men sprinklers and masons | N |   |
| L027 | Clean up men laborers rail recovery | N |   |
| L028 | Misc greasers bit grinders oilers shopmen and shaft men | N |   |
| L029 | Work underground maintenance | N |   |
| L030 | Superintendent assistant foremen section bosses grade foremen | N |   |
| L033 | Fire bosses mine examiners | N |   |
| L034 | Safety director | N |   |
| L035 | Dispatchers maintenance foremen | N |   |
| L039 | Work in underground coal mining | UNK |   |
| **Unknown Location** |
| L090 | Surface or Underground undetermined | UNK |   |
| L0XX | No data on occupational history or whether ever had paid employment | UNK |   |

\* Y = Yes, N = No, UNK = unknown