**Appendix 1. A summary of recordable ONIHL case selection**

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| MSHA Injury Dataset |  |  Selection Criteria (Description) | No. of Cases (Remained) |
| 1983-2014 All Reported Injury  |  |   | 665376 |
| 1983-2014 Reported Hearing Loss |  | Nature of injury = hearing loss or impairment | 5027 |
| 1983-2014 Reported Operator Hearing Loss not from an Injury/Accident |  | Injury Class = Other injury or Illness | 4938 |
|  | Event Type = not else classified or unclassified | 4923 |
|  | Degree of injury = permanent disability, occupational illness, or all other unclassified | 4917 |
|  | Injury narrative does not indicate a sudden blast/ear injury | 4910 |
|  | Operator only, exclude contractor | 4864 |
| 2000-2014 Reported Operator Hearing Loss not from an Injury/Accident  |  | Year = 2000-2014 | 1626 |