MDRS
User’s Manual
Mine Data Retrieval System
MDRS Version 1.2

03/18/2019
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Introduction

The new Mine Data Retrieval System (MDRS) is an upgrade to the old MDRS system and assists the stakeholders to access to data and visualizations. The modernized MDRS system will provide the customers with an intuitive user interface, improved user experience with operations that allow for slicing and dicing of data and enhanced search capabilities. This includes features to search by Mines, Contractors, Operators and Controllers. The data available through the new MDRS platform is staged by MicroStrategy application hosted from the enterprise data warehouse.

Getting Started

1. In the browser, navigate to https://www.msha.gov/microstrategy
2. On this page, scroll to the middle of the page and click on "Mine Data Retrieval System (New MDRS)" link.

3. This will lead to the MDRS Home Page.
Home Page

On the home page you will find links that lead to:

- Search active mines
- Related reports for Mine ID
- Extended search for Mines and Contractors
- Miscellaneous reports
- Public MSHA Datasets
**Search Active Mines**

The data from MDRS can be accessed by performing a search based on **Mine ID, Mine Name, Contractor ID, Contractor Name, Controller or Operator**. Based on the search option, the reports are displayed with information in the form of grid tables and visualization charts.

Enter a **Mine ID, Mine Name, Contractor ID, Contractor Name, Controller or Operator**, then select the appropriate radio button.

**Search by Mine ID**

The data from MDRS can be accessed by performing a search based on **Mine ID**. The search by **Mine ID** option can be selected by clicking the related radio button.

Enter a partial ID and press the *Tab* key to display a drop down list of matching **Mine IDs** based on the partial text entered. Press *Enter* key to add the **Mine ID** to the list of **Mine IDs** to be searched.

After the **Mine ID** value is entered in the search bar, the related reports for the specified **Mine ID** can be accessed by clicking appropriate links listed under the “**Reports for this Mine ID**” section.
Mine Data Retrieval System

**Search by Mine Name**

The data from MDRS can be accessed by performing a search based on **Mine Name**. The search by **Mine Name** option can be selected by clicking the related radio button. Enter a partial Mine Name and press the Tab key to display a drop down list of matching **Mine Name**s based on the partial text entered. Press Enter key to add the **Mine Name** to the list of **Mine Name**s to be searched.

![Search Active Mines](image)

After the **Mine Name** value is entered in the search bar, the related reports for the specified **Mine Name** can be accessed by clicking appropriate links listed under the “**Reports for this Mine Name**” section.

**Search by Contractor ID**

The data from MDRS can be accessed by performing a search based on **Contractor ID**. The search by **Contractor ID** option can be selected by clicking the related radio button. Enter a partial ID and press the Tab key to display a drop down list of matching **Contractor ID**s based on the partial text entered. Press Enter key to add the **Contractor ID** to the list of **Contractor ID**s to be searched.

![Search Active Mines](image)
After the **Contractor ID** value is entered in the search bar, the related reports for the specified **Contractor ID** can be accessed by clicking appropriate links listed under the “**Reports for this Contractor ID**” section.

**Search by Contractor Name**

The data from MDRS can be accessed by performing a search based on **Contractor Name**. The search by **Contractor Name** option can be selected by clicking the related radio button.

Enter a partial name and press the *Tab* key to display a drop down list of matching **Contractor Names** based on the partial text entered. Press *Enter* key to add the **Contractor Name** to the list of **Contractor Names** to be searched.

After the **Contractor Name** value is entered in the search bar, the related reports for the specified **Contractor Name** can be accessed by clicking appropriate links listed under the “**Reports for this Contractor Name**” section.
Search by Controller

The data from MDRS can be accessed by performing a search based on **Controller**. The search by **Controller** option can be selected by clicking the related radio button.

Click **Controller Report**.

Search by Operator

The data from MDRS can be accessed by performing a search based on **Operator**. The search by **Operator** option can be selected by clicking the related radio button.

Click **Operator Report**.

Search Criteria

Selections: Include/Exclude Mines by their Status, Choose from all elements of ‘Operator Name (Current), Mine ID, Mine Name, Operator Name (Current), State Name.

After the **Operator** values are entered, click **Run Document**.
Extended Search

In addition to the direct search feature, the mine data can be retrieved using advanced search feature. The **Extended Search** feature provides options to perform **Advanced Search by Mines** as well as **Advanced Search by Contractors**. These options can be found directly below the ‘Search Active Mines section on the MDRS Home Page.

---

**Advanced Search - Mines**

Search Criteria

- Selections: **Mine ID, Mine Name, Commodity, County Name, State Name**

**Mine ID:**

1. Enter a **Mine ID** under **Search For** and click the search icon, or
2. Select a **Mine ID** from the list of mines **Available**. A maximum of 10 mines can be selected.

3. Click the single forward arrow to move the Mine(s) to **Selected**, or

4. Click the double forward arrow to move all Mines to **Selected**.

5. To remove a Mine, select the Mine ID from **Selected** and click the single back arrow to move the Mine(s) to **Available**.

**Mine Name:**

1. Enter a **Mine Name** under **Search For** and click the search icon, or

2. Select a **Mine Name** from the list of mines **Available**. A maximum of 10 mines can be selected.

3. Click the single forward arrow to move the Mine(s) to **Selected**, or

4. Click the double forward arrow to move all Mines to **Selected**.

5. To remove a Mine, select the Mine Name from **Selected** and click the single back arrow to move the Mine(s) to **Available**.

**Commodity:**

1. Enter a **Commodity** under **Search For** and click the search icon, or

2. Select a **Commodity** from the list of **Commodities Available**.

3. Click the single forward arrow to move the Commodity(s) to **Selected**, or

4. Click the double forward arrow to move all Commodities to **Selected**.

5. To remove a Commodity, select the Commodity from **Selected** and click the single back arrow to move the Commodity(s) to **Available**.
County Name:

1. Enter a **County Name** under **Search For** and click the search icon, or
2. Select a **County Name** from the list of **Counties Available**.
3. Click the single forward arrow to move the County(s) to **Selected**, or
4. Click the double forward arrow to move all Counties to **Selected**.
5. To remove a County, select the County Name from **Selected** and click the single back arrow to move the County(s) to **Available**.

State Name:

1. Enter a **State Name** under **Search For** and click the search icon, or
2. Select a **State Name** from the list of States **Available**.
3. Click the single forward arrow to move the State(s) to **Selected**, or
4. Click the double forward arrow to move all States to **Selected**.
5. To remove a State, select the State Name from **Selected** and click the single back arrow to move the State(s) to **Available**.
Advanced Search – Contractors

Search Criteria

Selections: Contractor ID, Contractor Name

Contractor ID:

1. Enter a Contractor ID under Search For and click the search icon, or
2. Select a Contractor ID from the list of Contractors Available.
3. Click the single forward arrow to move the Contractor(s) to Selected, or
4. Click the double forward arrow to move all Contractors to Selected.

5. To remove a Contractor, select the Contractor ID from Selected and click the single back arrow to move the Contractor(s) to Available.

Contractor Name:

1. Enter a Contractor Name under Search For and click the search icon, or
2. Select a Contractor Name from the list of Contractors Available.
3. Click the single forward arrow to move the Contractor(s) to Selected, or
4. Click the double forward arrow to move all Contractors to Selected.
5. To remove a Contractor, select the Contractor Name from Selected and click the single back arrow to move the Contractor(s) to Available.

Run Document

[Run Document] [Cancel]

At the bottom of each Search page there is an option to Run a Document for the criteria selected for Mines, Contractors, Operators, and/or Controllers.

1. Select Run Document to continue or Cancel to return to the Home Page.
2. Selecting Run Document will create a screen similar to the one below.
Other MSHA Data Reports

The Other MSHA Data Reports can be found below the Extended Search section on the Home Page.
Mine Data Retrieval System

Mine Employment and Coal Production

There are three reports in the section. Click on the one that is required. Data is available from 1983 in these reports.

- No. of Hours Worked
- Avg. No of Employees
- Coal Production

Number of Hours Worked Report

Click No. of Hours Worked link under the Mine Employment and Coal Production Report to view the related report. The subsequent page prompts for selection of a Calendar Year(s) for which the report is desired.

Select year(s). Years selected will be displayed individually.

- [ ] 2018
- [ ] 2017
- [ ] 2016
- [ ] 2015
- [ ] 2014
- [ ] 2013
- [ ] 2012
- [ ] 2011
- [ ] 2010
- [ ] 2009
- [ ] 2008
- [ ] 2007
- [ ] 2006
- [ ] 2005
- [ ] 2004
- [ ] 2003
- [ ] 2002
- [ ] 2001
- [ ] 2000
- [ ] 1999
- [ ] 1998
- [ ] 1997
- [ ] 1996
- [ ] 1995
- [ ] 1994
- [ ] 1993
- [ ] 1992
- [ ] 1991
- [ ] 1990
- [ ] 1989

The default selection is: Calendar Year = 2020 or 2018
At the bottom of the page there is an option to Run a Document for the criteria selected.

1. Select Run Document to continue or Cancel to return to the Home Page.
2. Selecting Run Document will create a screen similar to the one below.
3. Click Back to Search link at the top of the report to return to the Home Page.

### Average Number of Employees Report

Click Avg. No of Employees link under the Mine Employment and Coal Production Report to view the related report. The subsequent page prompts for selection of a Calendar Year(s) for which the report is desired.
At the bottom of the page there is an option to **Run a Document** for the criteria selected.

1. Select **Run Document** to continue or **Cancel** to return to the Home Page.
2. Selecting **Run Document** will create a screen similar to the one below.
3. Click **Back to Search** link at the top of the report to return to the Home Page.

---

**Coal Production Report**

Click **Coal Production** link under the **Mine Employment and Coal Production Report** to view the related report. The subsequent page prompts for selection of a Calendar Year(s) for which the report is desired.

---

At the bottom of each Search page there is an option to **Run a Document** for the criteria selected.

1. Select **Run Document** to continue or **Cancel** to return to the Home Page.
2. Selecting **Run Document** will create a screen similar to the one below.
3. Click **Back to Search** link at the top of the report to return to the Home Page.
MSHA At Glance

Click Run Report link under the MSHA At Glance to view the related report.

Click Back to Search link at the top of the report to return to the Home Page.
Click **Run Report** link under the **Mining Fatalities by State Report** to view the related report.

1. Select Calendar Year(s) for which the report is desired.
2. Click **Back to Search** link at the top of the report to return to the Home Page.
Fatalities by Accident Classification

Click on the Run Report link under the Fatalities by Accident Classification Report to view the related report.

<table>
<thead>
<tr>
<th>Year Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
</tr>
<tr>
<td>2017</td>
</tr>
<tr>
<td>2016</td>
</tr>
<tr>
<td>2015</td>
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<tr>
<td>1987</td>
</tr>
<tr>
<td>1986</td>
</tr>
<tr>
<td>1985</td>
</tr>
<tr>
<td>1984</td>
</tr>
</tbody>
</table>

1. Select Calendar Year(s) for which the report is desired.
2. Click Back to Search link at the top of the report to return to the Home Page.
Top 20 Most Frequently Cited Standards

Click **Run Report** link under the **Top 20 Most Frequently Cited Standards** to view the related report. The subsequent page prompts for selection of **Mine Type**, **Industry** and **Year(s)** for which the report is desired.

**Mine Type**
Select **Mine Type** by clicking on one or more of the Mine Types

1. **MINE TYPE**
   Select MINE TYPE(S). Select all items for all nine types combined.
   - Facility
   - Surface
   - Underground
   1 - 3 of 3

**Industry**
Select **Industry** by clicking on one or more of the Industries.

2. **INDUSTRY**
   Select INDUSTRY. For all COAL select items 1-2. For all M/NM select items 5-6. For all industries, select all items.
   - 1:Coal
   - 2:Coal
   - 3:SandAndGravel
   - 6:Stone
   - 7:Nonmetal
   - 8:Metal
   1 - 6 of 6
Year(s)

Select Year(s) by clicking on one or more of the Years.

At the bottom of the page there is an option to Run a Document for the criteria selected.

1. Select Run Document to continue or Cancel to return to the Home Page.
2. Selecting Run Document will create a screen similar to the one below.
3. Click Back to Search link at the top of the report to return to the Home Page.
Citations & Orders by Case Numbers

Click Run Report link under Citations & Orders by Case Numbers to view the related report. The subsequent page prompts for selection of a Case Number (Required) for which the report is desired.

At the bottom of the page there is an option to Run a Document for the criteria selected.

1. Select Run Document to continue or Cancel to return to the Home Page.
2. Selecting Run Document will create a screen similar to the one below
3. Click Back to Search link at the top of the report to return to the Home Page.
Click **Run Report** link under the **High Dollar Citations and Orders Report** to view the related report. The subsequent page prompts for selection of **Coal or Metal** and **Controller Name** for which the report is desired.

### Coal or Metal

Select the **Coal** or **Metal** options by clicking on the appropriate check boxes.

1. Enter M:M/NM or C:COAL under **Search For** and click the search icon, or
2. Select M:M/NM or C:COAL from the **Available** list.
3. Click the single forward arrow to move to **Selected**, or
4. Click the double forward arrow to move both to **Selected**.
5. To remove one or both, select either item from **Selected** and click the single back arrow to move to **Available**.
Controller Name

1. Enter a **Controller Name** under **Search For** and click the search icon, or
2. Select a **Controller Name** from the list of Controller(s) **Available**.
3. Click the single forward arrow to move the Controller(s) to **Selected**, or
4. Click the double forward arrow to move all Controllers to **Selected**.
5. To remove a Controller, select the **Controller Name** from **Selected** and click the single back arrow to move the Controller(s) to **Available**.

At the bottom of the page there is an option to **Run a Document** for the criteria selected.

1. Select **Run Document** to continue or **Cancel** to return to the Home Page.
2. Selecting **Run Document** will create a screen similar to the one below
3. Click **Back to Search** link at the top of the report to return to the Home Page.
Explore MSHA Datasets

MSHA Datasets can be found below Miscellaneous Reports on the Home Page.
1. From the **Select Dataset** drop down menu, select the Dataset you want to view.

   --Select Dataset--
   1. Accident Injuries
   2. Area Samples
   3. Coal Dust Samples Data Set
   4. Conferences
   5. Civil Penalties Dockets & Decisions
   6. Contractor Employment Production (Quarterly)
   7. Contractor Employment Production (Yearly)
   8. Controller Operator History
   9. Employment Production Data set (Yearly)
   10. Inspections Data Set
   11. Mines Addresses
   12. Mines Data Set
   13. Noise Samples
   14. Personal Health Samples
   15. Quartz Samples
   16. Violations Data Set
   17. Contested Violations
   18. Assessed Violations
   19. 107(a) Orders Issued

2. Select the format you want to view it in. **TXT format, CSV format**, or select **Definition file**.
Search Active Mines – Mine ID / Mine Name

Related Reports – Dashboards

The Search Active Mines by Mine ID or Mine Name contains links to navigate to the related dashboards by clicking on the links displaying names of the corresponding dashboards.

Mine Information Dashboards

- Mine Information
- Overview
- Inspections
- Accidents
- Violations
- Health Samples
- Quarterly Employment/Production
- S&S Calculator
- POV Report
- VPID Report

Select Mine Information.
A screen similar to the one below will appear.

![Mine Data Retrieval System](image)

The links to access reports can be found under **Related Reports** for search by **Mine ID** and **Mine Name**.
The Mine Information dashboard is broken down into two sections:

- **Mine Information**
  - Mine
  - Operator History
  - Current Operator
  - Controller.

- **Mine Address**: Address listed for each Mine selected.

The **Related Reports** can be accessed from the current **Mine Information** dashboard by clicking on the links at the bottom of the page. Additionally, clicking the **Back to Search** link at the top of the dashboard will lead to the **MDRS** Home Page.
Export data

Using the Mine Information table as an example; the table can be exported to PDF or Excel format by clicking on the icon to access the 'Export to PDF' or 'Export to Excel' options.

The following is an example of the Mine Information file exported to PDF output format.

The following is an example of the Mine Information file exported to Microsoft Excel output format.
Mine Data Retrieval System

Mine Overview Dashboard

Grid data table 1: Fatalities, NFDL and Incidence Rate

<table>
<thead>
<tr>
<th>Year</th>
<th>Mine ID</th>
<th>Operator Name (Current)</th>
<th>Fatal Operator Injuries</th>
<th>NFDL Operator Injuries</th>
<th>Fatal Contractor Injuries</th>
<th>NFDL Contractor Injuries</th>
<th>Operator Hours Worked</th>
<th>Operator Fatal Incidence Rate</th>
<th>Operator NFDL Incidence Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
<td>4</td>
<td>3</td>
<td>216,073</td>
<td>3.00</td>
<td>5.00</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
<td>7</td>
<td>1</td>
<td>257,955</td>
<td>3.00</td>
<td>5.43</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
<td>10</td>
<td>2</td>
<td>240,010</td>
<td>3.00</td>
<td>6.04</td>
<td></td>
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<tr>
<td>2010</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>244,903</td>
<td>3.00</td>
<td>3.03</td>
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<td>2011</td>
<td>0100001</td>
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<td>7</td>
<td>4</td>
<td>273,111</td>
<td>3.00</td>
<td>5.12</td>
<td></td>
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<td>1</td>
<td>252,485</td>
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<td>6.10</td>
<td></td>
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<td>2</td>
<td>291,483</td>
<td>3.00</td>
<td>0.76</td>
<td></td>
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<tr>
<td>2014</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
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<td>2</td>
<td>295,005</td>
<td>3.00</td>
<td>1.56</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>238,450</td>
<td>3.00</td>
<td>4.23</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>225,593</td>
<td>3.00</td>
<td>0.80</td>
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<td>2017</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
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<td>1</td>
<td>0</td>
<td>224,701</td>
<td>3.00</td>
<td>0.89</td>
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<td>2018</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>0</td>
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<td>1</td>
<td>226,091</td>
<td>3.00</td>
<td>2.62</td>
<td></td>
</tr>
</tbody>
</table>

Grid data table 2: Citations, Orders And Safeguards

<table>
<thead>
<tr>
<th>Year</th>
<th>Mine ID</th>
<th>Operator Name (Current)</th>
<th>X1</th>
<th>X2</th>
<th>X3</th>
<th>X4</th>
<th>X5</th>
<th>X6</th>
<th>X7</th>
<th>X8</th>
<th>X9</th>
<th>X10</th>
<th>X11</th>
<th>X12</th>
<th>Proposed Penalties ($)</th>
<th>Current Penalties ($)</th>
<th>Amount Paid to Date ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>35</td>
<td>0</td>
<td>2</td>
<td>6</td>
<td>0</td>
<td>23,836</td>
<td>19,890</td>
<td>19,890</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>51</td>
<td>0</td>
<td>2</td>
<td>5</td>
<td>85,938</td>
<td>71,171</td>
<td>71,171</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>22</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>87,947</td>
<td>61,807</td>
<td>61,807</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>28</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7,234</td>
<td>8,224</td>
<td>5,534</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>52</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>10,381</td>
<td>10,218</td>
<td>10,218</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>48</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>21,890</td>
<td>21,509</td>
<td>21,509</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>32</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>10,381</td>
<td>10,381</td>
<td>10,381</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>47</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>36,937</td>
<td>36,937</td>
<td>36,937</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>18</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>15,839</td>
<td>15,839</td>
<td>15,839</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>21</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>9,283</td>
<td>9,283</td>
<td>9,283</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>0100001</td>
<td>Liddell North America of Alabama, LLC</td>
<td>31</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>19,172</td>
<td>19,172</td>
<td>4,120</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dashboard Visualization 1: **Nationwide Fatalities Trend**

Line Chart

Click **Line Chart** button to display data in the form of a Line Chart visualization.

Bar Chart

Click **Bar Chart** button to display data in the form of a Bar Chart visualization.
Heat Map

Click **Heat Map** button to display data in the form of a Heat Map visualization.

Dashboard Visualization 2: Nationwide NFDL Injuries Trend for Contractor/Operator

Line Chart

Click **Line Chart** button to display data in the form of a Line Chart visualization.
Mine Data Retrieval System

Bar Chart

Click **Bar Chart** button to display data in the form of a Bar Chart visualization.

Heat Map

Click **Heat Map** button to display data in the form of a Heat Map visualization.
Grid data table 4: Mine Information

Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Mine Overview** dashboard by clicking the links at the bottom of the page.
Mine Data Retrieval System

Mine Accidents Dashboard

Grid data table 1: Accidents Report of Selected Mines

Enter From and To date range by clicking on the icon

From: 2/26/2018
To: 2/25/2019

Grid data table 2: Mine Information
Dashboard visualizations: **Nationwide Accidents Data Analysis**

**Line Chart**

Click **Line Chart** button to display data in the form of a Line Chart visualization.

**Bar Chart**

Click **Bar Chart** button to display data in the form of a Bar Chart visualization.
Pie Chart

Click *Pie Chart* button to display data in the form of a Pie Chart visualization.

Click *Back to Search* to return to MDRS Home Page.

The *Related Reports* can be accessed directly from the *Mine Accidents* dashboard by clicking the links at the bottom of the page.
## Mine Inspections Dashboard

Grid data table 1: **Inspections Information**

![Mine Inspections Grid](image)

Enter **From** and **To** date range by clicking on the icon

**From:** 2/19/2011  
**To:** 3/18/2019

Grid data table 2: **Mine Information**

![Mine Information Grid](image)
Mine Data Retrieval System

Dashboard visualizations: **Nationwide Citations/Orders Issued**

**Line Chart**
Click **Line Chart** button to display data in the form of a Line Chart visualization.

**Bar Chart**
Click **Bar Chart** button to display data in the form of a Bar Chart visualization.

**Heat Map**
Click **Heat Map** button to display data in the form of a Heat Map visualization.
Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Mine Inspections** dashboard by clicking the links at the bottom of the page.

**Related Reports**
- [Overview]
- [Inspections]
- [Accidents]
- [Violations]
- [Health Samples]
- [Mine Quarterly Production]
- [POV Monitoring Tool]
- [VIPD]

## Violations Dashboard

Grid data table 1: **Violations Report**

Enter **From** and **To** date range by clicking on the icon.

<table>
<thead>
<tr>
<th>From:</th>
<th>2/26/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>To:</td>
<td>2/25/2019</td>
</tr>
</tbody>
</table>
Grid data table 2: **Mine Information**

<table>
<thead>
<tr>
<th>Mine Information</th>
<th>Operator History</th>
<th>Current Operator</th>
<th>Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine ID</td>
<td>Mine Status</td>
<td>Status Date</td>
<td>Type of Mine</td>
</tr>
<tr>
<td>0109003</td>
<td>Active</td>
<td>10/21/1979</td>
<td>Surface</td>
</tr>
</tbody>
</table>

**Dashboard visualizations:** **Nationwide Penalties by Year & Section of Act**
Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Mine Violations** dashboard by clicking the links at the bottom of the page.

---

**Health Samples Dashboard**

**Grid data table 1: Health Samples M/NM Only**

- **Enter From and To date range by clicking on the icon**

<table>
<thead>
<tr>
<th>Mine ID</th>
<th>Date</th>
<th>Location</th>
<th>Job</th>
<th>Contaminated Code</th>
<th>Concentration (PEL)</th>
<th>PEL</th>
<th>PPE</th>
<th>Contractor ID</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>8110003</td>
<td>12/22/2018</td>
<td>M - General</td>
<td>Utility Man</td>
<td>Calcium oxide</td>
<td>0.54</td>
<td>5</td>
<td>Y</td>
<td>0</td>
<td>CITATION/ORDER ISSUED</td>
</tr>
<tr>
<td>8110003</td>
<td>9/20/2018</td>
<td>S - Ore Processing</td>
<td>Laborer, Bugling</td>
<td>Calcium oxide</td>
<td>0.56</td>
<td>5</td>
<td>Y</td>
<td>0</td>
<td>NO ACTION</td>
</tr>
<tr>
<td>8110003</td>
<td>9/25/2018</td>
<td>S - Ore Processing</td>
<td>Laborer, Bugling</td>
<td>Calcium oxide</td>
<td>0.1</td>
<td>5</td>
<td>Y</td>
<td>0</td>
<td>CITATION/ORDER ISSUED</td>
</tr>
<tr>
<td>8110003</td>
<td>9/25/2018</td>
<td>S - Ore Processing</td>
<td>Drill Operator, Rotary</td>
<td>Calcium oxide</td>
<td>0.2</td>
<td>5</td>
<td>Y</td>
<td>0</td>
<td>NO ACTION</td>
</tr>
<tr>
<td>8110003</td>
<td>8/9/2018</td>
<td>M - Drying &amp; Reading</td>
<td>Miner/Driver Operator</td>
<td>Noise dosimeter, R0BA threshold dose</td>
<td>32.76</td>
<td>100</td>
<td>Y</td>
<td>0</td>
<td>NO ACTION</td>
</tr>
</tbody>
</table>

---

Enter **From** and **To** date range by clicking on the icon.
Grid data table 2: **Inspector Samples**

Grid data table 3: **Operator Samples**
Grid data table 4: **Quartz Results**

![Image of Quartz Results table]

Grid data table 5: **Mine Info**

![Image of Mine Info table]
Click *Back to Search* to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Mine Health Samples** dashboard by clicking the links at the bottom of the page.

### Quarterly Reported Production Information

Grid data table 1: **Mine Production Report**

<table>
<thead>
<tr>
<th>Mine ID</th>
<th>Calendar Year</th>
<th>Calendar Year Qtr</th>
<th>Subunit</th>
<th>Qtr Hours Reported</th>
<th>Qtr Avg Employee Cnt</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>STRIP, QUARY, OPEN PIT</td>
<td>15,863</td>
<td>20</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>MILL OPERATION/PREPARATION PLANT</td>
<td>40,411</td>
<td>71</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>OFFICE WORKERS AT MINE SITE</td>
<td>854</td>
<td>1</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>STRIP, QUARY, OPEN PIT</td>
<td>15,712</td>
<td>20</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>MILL OPERATION/PREPARATION PLANT</td>
<td>41,891</td>
<td>59</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>OFFICE WORKERS AT MINE SITE</td>
<td>574</td>
<td>1</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>STRIP, QUARY, OPEN PIT</td>
<td>10,541</td>
<td>30</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>MILL OPERATION/PREPARATION PLANT</td>
<td>39,268</td>
<td>54</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>OFFICE WORKERS AT MINE SITE</td>
<td>501</td>
<td>1</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>STRIP, QUARY, OPEN PIT</td>
<td>17,866</td>
<td>31</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>MILL OPERATION/PREPARATION PLANT</td>
<td>38,892</td>
<td>63</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>2016</td>
<td>OFFICE WORKERS AT MINE SITE</td>
<td>525</td>
<td>1</td>
</tr>
<tr>
<td>0100003</td>
<td>2018</td>
<td>Total</td>
<td>229,091</td>
<td>389</td>
<td></td>
</tr>
<tr>
<td>0100003</td>
<td>Total</td>
<td>Total</td>
<td>229,091</td>
<td>389</td>
<td></td>
</tr>
</tbody>
</table>

Make selections for Calendar Year from the check boxes.
Grid data table 2: **Mine Information**

### Mine Employment / Production

<table>
<thead>
<tr>
<th>Mine ID</th>
<th>Mine Name</th>
<th>Commodity</th>
<th>Mine Status</th>
<th>Status Date</th>
<th>Type of Mine</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100003</td>
<td>O’Neil Quarry &amp; Mill</td>
<td>Line</td>
<td>Active</td>
<td>12/31/2019</td>
<td>Surface</td>
</tr>
</tbody>
</table>

**Addresses**

<table>
<thead>
<tr>
<th>Mine ID</th>
<th>Mine Name</th>
<th>Street</th>
<th>Zip Code</th>
<th>County</th>
<th>City</th>
<th>State Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100003</td>
<td>O’Neil Quarry &amp; Mill</td>
<td>2885 Hwy 31 South</td>
<td>35040</td>
<td>Stetts</td>
<td>Cawal</td>
<td>ALABAMA</td>
</tr>
</tbody>
</table>

Dashboard visualizations: **Nationwide Employment Trends**

**Related Reports**

- [Overviews]
- [Inspections]
- [Accidents]
- [Violations]
- [Health Samples]
- [Mine Quarterly Production]
- [POV Monitoring Tool]
- [NPD]
Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Mine Quarterly Production** dashboard by clicking the links at the bottom of the page.

**S&S Calculator**

Based on the Mine ID or Mine Name selected, the S&S calculator will display the information as shown below:

Enter **From** and **To** date range by clicking on the icon

Click **Back to Search** to return to MDRS Home Page.
POV Monitoring Tool Dashboard

The following criteria are used to perform the MSHA review required under 30 CFR 104.2. This on-line tool provides a comparison of a mine's enforcement and injury data against the POV criteria. This data is refreshed monthly. When MSHA runs a POV screening, a mine meets either Criteria 1 or Criteria 2, the mine will be considered for a POV.

These results are preliminary and do not necessarily reflect complete injury data. Accidents without return to work information will be calculated as lost or restricted work days from the time of the injury to the report run date. This calculation assumes a five day work week and excludes Federal holidays.

### Overall Results

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Does the mine meet either Criteria 1 or 2 (30 CFR 104.2)?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mine ID:</th>
<th>Select Mine ID:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Status:</td>
<td>Active</td>
</tr>
<tr>
<td>Mine Name:</td>
<td>O'Neal Quarry &amp; Mill</td>
</tr>
<tr>
<td>Mine Type:</td>
<td>Surface</td>
</tr>
<tr>
<td>Controller:</td>
<td>Lhoist Group</td>
</tr>
<tr>
<td>Operator:</td>
<td>Lhoist North America of Alabama, LLC</td>
</tr>
</tbody>
</table>

### Criteria Description

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Description</th>
<th>Does the Mine Meet Criteria?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>At least 50 citations/orders for significant and substantial (S&amp;S) violations issued in the most recent 12 months.</td>
<td>NO</td>
</tr>
<tr>
<td>2</td>
<td>A rate of eight or more S&amp;S citations/orders issued per 100 inspection hours during the most recent 12 months.</td>
<td>NO</td>
</tr>
<tr>
<td>3</td>
<td>7 S&amp;S C/O's were issued during 250 25 inspection hours. OR The degree of negligence for at least 25 percent of the S&amp;S citations/orders issued during the most recent 12 months is high or reckless disregard.</td>
<td>NO</td>
</tr>
<tr>
<td>4</td>
<td>0 of the 7 S&amp;S C/O's were issued either high or reckless disregard.</td>
<td>NO</td>
</tr>
<tr>
<td>5</td>
<td>At least 0.5 elevated citations and orders (under section 104(b)(1), 104(b)(2), 104(g)(2), or 107(a)(2) of the Mine Act) issued per 100 inspection hours during the most recent 12 months.</td>
<td>NO</td>
</tr>
<tr>
<td>6</td>
<td>0 elevated C/O's were issued during 250 25 inspection hours.</td>
<td>NO</td>
</tr>
</tbody>
</table>

Remember to scroll down to see the complete form.
Select Mine ID from menu drop down
Once a Mine ID is selected, the Mine POV information is displayed.

Remember to scroll down to see the complete form
Click the link at the top of the report to display POV as a single page.

[POV Single Source Page]

Click the link at the bottom of the report to contact MSHA

[This link]
Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **POV Monitoring Tool** dashboard by clicking the links at the bottom of the page.

**Related Reports**

[Overview]  [Inspections]  [Accidents]  [Violations]  [Health Samples]  [Mine Quarterly Production]

[POV Monitoring Tool]  [VPID]

**VPID Dashboard**

The initial link from the MDRS Home Page would prompt to **Enter Date** in order to display VPID information.

Select a date after 04/23/2007 by clicking the **[ ]** icon. By default current date is selected for VPID calculation.
After selecting a date, select **Run Document** to display VPID dashboard or **Cancel** to return to Mines Home Page.

Select **Mine IDs** from the Mine Selector list to display the relevant VPID information.
Click *Back to Search* to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Mine Overview** dashboard by clicking the links at the bottom of the page.

---

### Search Active Mines – Contractor ID / Contractor Name

#### Related Reports – Dashboards

The **Search Active Mines** by Contractor ID or Contractor Name contains links to navigate to the related dashboards by clicking on the links displaying names of the corresponding dashboards.

---

**Contractor Information Dashboard**

- Overview
- Accidents
- Violations
- Quarterly Employment/Production
- Mines Worked

Select *Overview*
### Reports for Contractor ID and Contractor Name

Access to these reports can be found under Related Reports for search by Contractor ID and Contractor Name.

<table>
<thead>
<tr>
<th>Contractor ID</th>
<th>Fiscal Year</th>
<th>Coal or Metal</th>
<th>Fatalities - Contractors</th>
<th>NIFD Fatalities - Contractors</th>
<th>(Operator FY Reported Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q324</td>
<td>2005</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2007</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2008</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2009</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2010</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2011</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2012</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2013</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2014</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2015</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2016</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2017</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q324</td>
<td>2018</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>20,885</td>
</tr>
<tr>
<td>Q324</td>
<td>2019</td>
<td>MAMM</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** The information provided by the Mine Data Retrieval System (MDRS) is based on data gathered from various MSHA systems. As there may be a lag time in data being entered into these systems, there will also be a lag in the reflection of that data on the MDRS. Fatal data appears after 30 days on MDRS.

**Related Reports**

[Overview] [Accidents] [Violations] [Quarterly Production] [Mines Worked]
Mine Data Retrieval System

Contractor Overview Dashboard

Grid data table 1: Injuries, Hours Worked and Production Totals

Grid data table 2: Citations, Orders And Safeguards

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Dashboard Visualization 1: **Nationwide Fatalities and Injuries Trend**

Line Chart

Click **Line Chart** button to display data in the form of a Line Chart visualization.

Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Contractor Overview** dashboard by clicking the links at the bottom of the page.
**Contractor Accidents Dashboard**

Grid data table 1: *Accidents Report*

![Accidents Report](image)

Enter *From* and *To* date range by clicking on the icon.

```
<table>
<thead>
<tr>
<th>From:</th>
<th>12/7/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>To:</td>
<td>7/3/2017</td>
</tr>
</tbody>
</table>
```

Select *All*, *Coal*, or *Metal/Non-Metal* option by clicking on the appropriate radio button.

```
[radio buttons: (All), COAL, M:NM]  
```
Dashboard visualizations: **Nationwide Injury Analysis**

**Line Chart**
Click *Line Chart* button to display data in the form of a Line Chart visualization.

**Bar Chart**
Click *Bar Chart* button to display data in the form of a Bar Chart visualization.
Pie Chart

Click **Pie Chart** button to display data in the form of a Pie Chart visualization.

Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Contractor Accidents** dashboard by clicking the links at the bottom of the page.
Contractor Violations Dashboard

Grid data table 1: Violations Report

Enter **From** and **To** date range by clicking on the icon

![Date Range Icon]

From: 3/24/2011
To: 7/29/2017

Select **All**, **Coal**, or **Metal/Non-Metal** option by clicking on the appropriate radio button.
Dashboard visualizations: **Nationwide Violation Trends**

Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Contractors Violations** dashboard by clicking the links at the bottom of the page.
Quarterly Reported Production Information

Grid data table 1: Mine Production Report

Make selections for Calendar Year from the check boxes
Dashboard visualizations: **Nationwide Injury Trends of Contractor/Operators**

Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Contractor Quarterly Employment and Production** dashboard by clicking the links at the bottom of the page.
Filter the results by selecting from **C: Coal or M: M/NM or All** options and clicking on the radio button.
Grid data table 1: **Contractors Mines Worked Report**

Dashboard Visualization: **Nationwide Fatalities & Injuries**

Click **Back to Search** to return to MDRS Home Page.

The **Related Reports** can be accessed directly from the **Contractor Quarterly Employment and Production** dashboard by clicking the links at the bottom of the page.

**Related Reports**

- [Overview]
- [Accidents]
- [Violations]
- [Quarterly Production]
- [Mines Worked]
Controllers Report

By clicking the ‘Search Active Mines > Controller’ button on the DRS Homepage will display the link to Controller Report.

Grid data table: Controller Report

1. Enter a Controller Name under Search For and click the search icon, or
2. Select a Controller Name from the list of Controllers Available.
3. Click the single forward arrow to move the Controller(s) to Selected, or
4. Click the double forward arrow to move all Controllers to Selected.
5. After the Controller value is entered in the search bar, click Run Document.
At the bottom of the Search page there is an option to Run a Document for the criteria selected for Controller.

1. Select Run Document to continue or Cancel to return to the Home Page.
2. Selecting Run Document will create a screen similar to the one below.

Click on Mine ID in the grid table to retrieve related mine data.

Dashboard Visualization: Nationwide Citations & Orders Trend

Click Back to Search to return to MDRS Home Page.
Operators Dashboard

Search Active Mines

By clicking the ‘Search Active Mines > Controller’ button on the DRS Homepage will display the link to Controller Report.

Grid data table: Operator Report

The Operator Report will display the information as displayed in the following illustration.

1. Mine Status

Select one or all Mine Status(s) to be included in the report.

2. Operator Name
Mine Data Retrieval System

1. Enter an Operator Name under Search For and click the search icon, or
2. Select an Operator Name from the list of operators Available.
3. Click the single forward arrow to move the Operator(s) to Selected, or
4. Click the double forward arrow to move all Operators to Selected.
5. To remove an Operator, select the Operator Name from Selected and click the single back arrow to move the Operator(s) to Available.

3. Mine ID

1. Enter a Mine ID under Search For and click the search icon, or
2. Select a Mine ID from the list of mines Available. A maximum of 10 mines can be selected.
3. Click the single forward arrow to move the Mine(s) to Selected, or
4. Click the double forward arrow to move all Mines to Selected.
5. To remove a Mine, select the Mine ID from Selected and click the single back arrow to move the Mine(s) to Available.

4. Mine Name

1. Enter a Mine Name under Search For and click the search icon, or
2. Select a Mine Name from the list of mines Available.
3. Click the single forward arrow to move the Mine(s) to Selected, or
4. Click the double forward arrow to move all Mines to Selected.
5. To remove a Mine, select the Mine Name from Selected and click the single back arrow to move the Mine(s) to Available.
5. State Name

1. Enter a State Name under Search For and click the search icon, or
2. Select a State Name from the list of States Available.
3. Click the single forward arrow to move the State(s) to Selected, or
4. Click the double forward arrow to move all States to Selected.
5. To remove a State, select the State Name from Selected and click the single back arrow to move the State(s) to Available.

Run Document

At the bottom of the Search page there is an option to Run a Document for the criteria selected for Operator.

1. Select Run Document to continue or Cancel to return to the Home Page.
2. Selecting Run Document will create a screen similar to the one below.

Grid Table: Operators Information

Click Mine ID in the grid table to retrieve related mine data.
Dashboard Visualization: **Nationwide Operator Production Trends**

Click *Back to Search* to return to MDRS Home Page.