On accident occurred at this operation on 04/15/18 at approximately 3:27 pm. This order is being issued under the Federal Mine Safety and Health Act of 1977 (Section 103(i)), to prevent destruction of any evidence which would assist in investigating the cause of the accident. It prohibits all activity in the underground areas of the mine except to rescue and recover miners.

Section II—Inspector's Evaluation

10. Gravity:
   A. Injury or illness (has it): No Likelihood □ Unlikely □ Reasonably Likely □ Highly Likely □ Occurred □
   B. Injury or illness could reasonably be expected to be: No Lost Workdays □ Lost Workdays or Restricted Duty □ Permanently Disabling □ Fatal □
   C. Significant and Substantial (See Reverse): Yes □ No □
   D. Number of Persons Affected

11. Negligence (check one) A. None □ B. Low □ C. Moderate □ D. High □ E. Reckless Disregard □

12. Type of Action
   103-j □

13. Type of Issuance (check one)
   Citation □ Order □ Safeguard □

14. Initial Action
   A. Citation □ B. Order □ C. Safeguard □ D. Written Notice □ E. Citation/Order Number

15. Area or Equipment

16. Termination Due
   A. Date Mo Da Yr □ B. Time (24 Hr. Clock)

Section III—Termination Action

17. Action to Terminate

18. Terminated
   A. Date Mo Da Yr □ B. Time (24 Hr. Clock)

Section IV—Automated System Data

19. Type of Inspection (activity code) CO □
20. Event Number 62660865
21. Primary or Mill

22. Signature

MSHA Form 7000-3, Mar 86 (Revised)
The initial order is modified to reflect that MSHA is now proceeding under the authority of Section 103(k) of the Federal Mine Safety and Health Act of 1977. This Section 103(k) order is intended to protect the safety of all persons on-site, including those involved in rescue and recovery operations or investigation of the accident. The mine operator shall obtain prior approval from an Authorized Representative of the Secretary for all actions to recover and/or restore operations in the affected area. Additionally, the mine operator is reminded of its existing obligations to prevent the destruction of evidence that would aid in investigating the cause or causes of the accident.

Section II, Item 12 is modified to 103(k).
103(K) order 4642503 is hereby modified to allow establishment of a fresh air base at 35 acres and to permit two more rescue teams to enter the mine.
### Section I — Subsequent Action/Continuation Data

<table>
<thead>
<tr>
<th>1. Subsequent Action</th>
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<td>04/05/10</td>
<td>4642583-03</td>
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<tr>
<th>4. Served To: Chris Adams</th>
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<tr>
<th>5. Operator: Performance Coal Company</th>
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<tr>
<th>6. Mine: Upper Big Branch Mine South</th>
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<tr>
<th>7. Mine ID: 746-889343</th>
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</table>

### Section II — Justification for Action

103K order 4642583 is hereby modified to allow the fresh air base to be moved only to 78X0 and Mine Rescue Teams to explore only.

### Section III — Subsequent Action Taken

<table>
<thead>
<tr>
<th>8. Extended To</th>
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<tbody>
<tr>
<td>A. Date</td>
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### Section IV — Inspection Data

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<td>628168645</td>
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<th>11. Signature: [Redacted]</th>
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<th>13. Date</th>
<th>Mo</th>
<th>Da</th>
<th>Yr</th>
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<td>04/05/10</td>
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<td></td>
<td>15/5</td>
</tr>
</tbody>
</table>
A3(k) order number 4642583 is hereby modified to allow your mine rescue team to enter the mine and travel to the fresh air base at 18 West and explore only with two teams.
103(k) order 4642503 is hereby modified to allow the first aid box to be moved only to 98,000 ft and to allow miners to explore only.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action [ ]
2. Dated (Original Issue) 04/15/10

4. Served To
   Chris Adams
   Performance Coal Company

5. Operator
   Upper Big Branch Mine—South
   146 - 08436
   (Contractor)

Section II—Justification for Action

103(R) order 4642503 is hereby modified to allow the fresh air base to be moved to 701 XCut and explore only.
Order Number 4642583 is modified to allow two mine rescue teams to enter the mine and travel to the fresh air base at 10:10.
**Section I—Subsequent Action/Continuation Data**

1. Subsequent Action  

2. Dated (Original Issue)  

3. Citation/Order Number  

4. Served To  

5. Operator  

6. Mine  

7. Mine No.  

8. City  

**Section II—Identification for Action**

Order Number 4642503 is hereby modified to allow the fresh air base to be moved to Xcut 185 and to explore wire.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action □
   1a. Continuation □

2. Dated
   (Original Issue) 04/05/05

3. Citation/Order Number 464250505

4. Served To
   Chris Atkins

5. Operator
   Performance Coal Company

6. Mine
   Upper Big Branch Mine Scott

7. Mine ID 08486 (Contractor)

Section II—Justification for Action

123(k) order is hereby modified to remove all persons from the mine due to air quality issues. Elevated CH4, CO, and low O2 have been encountered on the #22 section.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action
2. Dated (Original Issue) 04/06/10
3. Citation/Order Number 46425 83

4. Served To
Chris Callihan
Performance Coal Company
5. Opening Location
Upper Big Branch Mine
6. Mine

Section II—Justification for Action

(Orders 803) Order 4642583 is hereby modified to allow drilling two boreholes in the HG22 panel and one bore hole in the panel left end immediately into the HG22 panel. These boreholes are referenced on a map dated 04/05/2010 @ 5:50 PM.

Section III—Subsequent Action Taken

8. Extended To
9. Type of Inspection
10. Event Number

Section IV—Inspection Data

11. Signal AR Number
12. Date 04/05/10
13. Time (24 Hr. Clock) 10:55 AM

See Continuation Form □
Section I - Subsequent Action/Continuation Data

1. Subsequent Action
   1a. Continuation

2. Dated
   (Original Issue) 04 05 10

3. Citation/Order Number 4642503 - 11

4. Served To
   Jason Whitehead - MCS Representative Performance Coal Company

5. Operator

6. Mine
   Upper Big Branch Mine - South

7. Mine ID 46 - 08436

(Contractor)

Section II - Justification for Action

103K Order number 4642503 is hereby modified to allow the refueling of the diesel air compressors that run bleeder pumps. This modification to allow refueling is limited to today's date of 04-06-2010. Refueling after this date will require an additional modification. While diesel generators are being refueled, the atmosphere will be monitored by MSHA and Company personnel at the diesel fuel truck. The air compressors will be filled from the furthest extent that the hose allows, during the refueling.

See Continuation Form □

Section III - Subsequent Action Taken

B. Time (24 Hr. Clock)

C. Vacated □

D. Terminated □

E. Modified □

Section IV - Inspection Data

9. Type of Inspection E 09

10. Event Number 6286065

AR Number 12 Date 04 06 10

13. Time (24 Hr. Clock) 11 16

MSHA Form 7000-3a, Mar 85 (rev-sed)
Order No. 4642503 is modified to allow the operator to install an exhausting fan on the #1 drill hole that was drilled into the MG E22 panel. The fan installation shall be in compliance with the plan that was acknowledged at 6:34am on this date.
Section I--Subsequent Action/Continuation Data

1. Subsequent Action 1a. Continuation [ ]
2. Dated (Original Issue) Mo Da Yr 04/05/10
3. Citation/Order Number 642503 - 13
4. Served To
   Gary Frampton - Massey Coal Services Performance Coal Company
5. Operator
6. Mine
   Upper Big Branch Mine South
7. Mine ID 46 - 08436
   (Contractor)

Section II--Justification for Action

103K order number 4642503 is hereby modified to allow the refueling of the diesel operated exhaust fans that are installed on the drilled bore holes. This modification only allows refueling on the condition that no one will be exposed to the Fan exhaust during the refueling process.
103(K) Order Number 4642503 is hereby modified to allow an extension tubing to be placed on the exhausting fan installed a drill site Number 2 hole Number 7. The fan will be stopped to perform this action. After the extension is installed per the plan submitted 04/27/2018 @ 15:48 hours, the fan may be restarted. After gas monitoring as stated in the stated above plan, the drilling of site 1 borehole 2 may be restarted. After the provisions have been completed provided as required by the above referenced plan, Site 1 borehole 3 may commence area survey Spall # 24574.

See Continuation Form □
103(k) order number 4642503 is hereby modified to allow a 75 HP Diesel Farm to be installed over hole #3 at site #2. A 2 inch flexible tube shall be installed on the fan exhaust and extend 75' down the hill.

Only persons responsible for the operation of the drill shall be allowed inside the yellow caution tape. A person qualified to make gas examinations will continuously monitor the methane, Oxygen, and carbon monoxide at the drill operator's location, or the examination can be monitored remotely. All persons shall be removed from the drill, Farm or any location if Oxygen is at or below 19.5%, or if methane is 2.5% or greater, or if carbon monoxide is 500PPM or greater. A person qualified in gas detection shall continuously monitor the methane, Oxygen and carbon monoxide due to the installation of fans and tubing.

See Continuation Form
Order No. 4642503 is modified to allow the operator to implement their exploration and recovery plan that was approved 04-08-10 at 3:41am.
Order No. 4642503 is modified to allow the operator to implement their victim recovery plan upon completion of their exploration and recovery plan. The victim recovery plan was approved 04-08-10 at 4:36am.
After all rescue team members have exited the Upper Big Bench mine, drilling will resume on site 1 borehole #2 and all other holes previously approved. After site 1, borehole #2 has been completed, a high pressure wise forced fan will be installed to assist in the ventilation of headgate 32 panel.
**Mine Citation/Order Continuation**

U.S. Department of Labor
Mine Safety and Health Administration

**Section I—Subsequent Action/Continuation Data**

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<td></td>
<td>04/05/10</td>
<td>4642503 - 19</td>
<td><strong>CHRIS ADKINS</strong></td>
<td>PERFORMANCE COAL COMPANY</td>
<td><strong>UPPER BIG BRANCH SOUTH</strong></td>
<td>46 - 08436 - (Contractor)</td>
</tr>
</tbody>
</table>

**Section II—Justification for Action**

Order No. 4642503 is modified to allow the operator to implement the Search & Rescue Plan TG-22 & HG-22 shelters approved 12/13 AM.

---

**Section III—Subsequent Action Taken**

<table>
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<th>8. Extended To</th>
<th>A. Date</th>
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<th>Da</th>
<th>Yr</th>
<th>B. Time (24 Hr. Clock)</th>
<th>C. Vacated</th>
<th>D. Terminated</th>
<th>E. Modified</th>
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</table>

**Section IV—Inspection Data**

|-----------------------|------------------|--------------|---------|----|----|----|---------|----|----|----|-------------------------|

MSHA Form 7000-3a, Mar 95 (revised)
SUBSEQUENT ACTION NO. 4642503-10 IS MODIFIED TO INDICATE THE CORRECT DATE IN ITEM NO. 12 AS 04/06/2010 INSTEAD OF 04/05/2010 AS ORIGINALLY INDICATED. ADDITIONALLY, THE ORIGINAL ORDER IS BEING MODIFIED TO PERMIT THE MINE OPERATOR TO MOVE THE NO. 6 BROOKVILLE MANTRIP FROM THE MAIN ELLIS PORTALS TO THE MAIN TRUCK SHOP. THE MANTRIP SHALL BE TRANSPORTED BY TRUCK AND COVERED WITH BRATTICE OR OTHER MATERIAL THAT IS SUITABLE TO PRESERVE AND PREVENT THE DESTRUCTION OF ANY EVIDENCE.
Section I—Subsequent Action/Continuation Data

<table>
<thead>
<tr>
<th>1. Subsequent Action</th>
<th>1a. Continuation</th>
<th>2. Dated (Original Issue)</th>
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<td></td>
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<td>04/05/10</td>
<td>46725030-21</td>
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</tbody>
</table>

4. Served To: Chris Adams  
5. Operator: Performance Coal Company  
6. Mine: Upper Big Branch Mine South  
7. Mine ID: UX-08436  
(Contractor)

Section II—Justification for Action

103(K) order number 4672503 is hereby modified to allow the company to implement the provisions of a search and rescue plan dated 4/1/2010 @ 1350 hours.

See Continuation Form □

Section III—Subsequent Action Taken

8. Extended To  
   A. Date | Mo | Da | Yr | B. Time (24 Hr. Clock) | C. Vacated | D. Terminated | E. Modified |

Section IV—Inspection Data

9. Type of Inspection  
   F09  
   10. Event Number  
   6256065  

11. Incident Location: [Redacted]  
   12. Date | Mo | Da | Yr | 13. Time (24 Hr. Clock) |
   09/07/10 | 14:00
Order No. 4642503 is modified to allow the recovery of [redacted], in accordance with the approved plan for this recovery.
Order No. 4642563 is modified to allow recovery of [redacted] from the area at No. 2 shield on the headgate, following the same procedures and plan for this recovery approved 12:28 pm on 4-10-10.
Section I – Subsequent Action/Continuation Data

1. Subsequent Action

2. Dated (Original Issue) Mo 04 Da 05  Yr 10

3. Citation/Order Number 9642503 - 24

4. Served To
Wayne Persinger

5. Operator
Performance Coal Company

6. Mine
Upper Big Branch Mine, West
Mine ID 96 - 08416 - (Contractor)

Section II – Justification for Action

103(k) order number 9642503 is hereby modified to implement phase I of the HG 22 Recovery Plan dated 04/10/2010 at 1040 hours.

Section III – Subsequent Action Taken

Section IV – Inspection Data

9. Type of Inspection

10. Event Number G286065

11. Substantiated

12. Date 04/10/10

13. Time (24 Hour Clock) 1040
Section II—Justification for Action

103(k) order number 16-42583 is hereby modified to implement Phase 2 of the Reavey Plan dated 04/10/2015 at approximately 1:30 hours. Phase 2 will consist of 3 stages: Stage 1 - Epitize the Edward Level and install loose coal cutover as indicated on the map. Epitize the 2nd level. Stage 2 - Install cutover sequentially at locations D, E, B, and C. All miners will be withdrawn from the mine. After utilization, the quality of the road direction will be checked at the headgate side of the crosscut. Stage 3 - Install cutover sequentially as noted on the attached map until the 1422 section is ventilated to #1 inclining the second crosscut at the face.
Section I—Subsequent Action/Continuation Data

4. Server To: Chris Baneheus

5. Operator: Performance Coal Company

6. Mine: Upper Big Branch Mine - Seal

7. Mine ID: 46-XE3L-(Contract)

Section II—Justification for Action

183(k) order number 4642503 is hereby modified to implement the submitted dated 4/11/10 @ 4:32 a.m. to move two real-mounted windshield's from the Performance Coal located to the Performance Coal located. The company numbers for the units are 54-7 Buxton & 54-7 Buxton.

8/12/10.

Section III—Subsequent Action Taken

B. Time (24 Hr. Clock)

C. Vacated

D. Terminated

E. Modified

Section IV—Inspection Data

9. Type of Inspection: E07

10. Event Number: 28664LS

11. Signature: [Redacted]

AR Number: [Redacted]

12. Date: 04/11/10

13. Time (24 Hr. Clock): 0443

MSHA Form 7000-3a, Mar 85 (revised)
Section I—Subsequent Action/Continuation Data

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<td>04/19/15 /14</td>
<td>46412583 - 27 (Contractor)</td>
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4. Served To: Chris Oakins

5. Operator: Performance Coal Company

6. Mine: Upper Big Branch Mine South

Section II—Justification for Action

103(K) order number 46412583 is hereby modified to implement a plan submitted on 4/15/2015 to install six temporary seals in the 8 North Panel.

Section III—Subsequent Action Taken

8. Extended To:

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Section IV—Inspection Data

9. Type of Inspection: 69

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11. Signature: [Redacted]

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MSHA Form 7000-3a, Mar 85 (revised)
Section I—Subsequent Action/Continuation Data

1. Subsequent Action
2. Dated (Original Issue) 24/05/18
3. Citation/Order Number 4642503 - 28
4. Served To Chris Adams
5. Operator Performance Coal Company
6. Mine Upper Big Branch Mine South
7. Mine ID 46-08436 (Contractor)

Section II—Justification for Action

103(k) order number 4642503 is hereby modified to require removal of all persons from the two seams that overlie the Upper Big Branch Mine South. The parallel and interbedted seams are actively being mined under MSHA TD # 4607997 as Elk Run Coal Company Inc., Castle Mine. An in-mine slope connects the two coal seams. This mine is in an active - non-producing status with no active producing working sections. Power to run essential de-watering pumps and the AMS system may remain on.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action 1a. Continuation 2. Dated (Original Issue) 3. Citation/Order Number
   X 8/4/2010 4642503-27

4. Served To
   Chris Beaver

5. Operator
   Performance Coal Company

6. Mine
   Uncle Big Bench Mine - View

7. Mine ID
   4L-49473L

   Contract

Section II—Justification for Action

18.3(k) order number 4642503 is hereby modified to require a minimum of 5 minutes of uninterrupted ventilation to the mine. A 37 minute sampling intervals at the boundary for the atmospheric quality of labor mixture, methane & oxygen. The 5 minute minimum time requirement shall begin after the last mine rescue team contacts the personnel in the mine atmosphere stabilizes.

18.3(k) is defined as modified on 8/6/2010.

4642503-27.

Section III—Subsequent Action Taken

8. Extended To
   A. Date   B. Time (24 Hr. Clock)   C. Vacated   D. Terminated   E. Modified
   Mo   Da   Yr

Section IV—Inspection Data

9. Type of Inspection
   E09

10. Event Number
    646L9435

11. Signature
    [Redacted]

AR Number

12. Date
   8/6/11

13. Time (24 Hr. Clock)
   1900

MSHA Form 7000-9a, Mar 69 (revised)
Section I—Subsequent Action/Continuation Data

1. Subsequent Action: [Mark: X]
2. Dated (Original Issue): [Mark: 5/10]
3. Citation/Order Number: [Mark: 46/42503-30]
4. Served To: Chris Prentice
5. Operator: Peabody Energy Coal Company
6. Mine: Upper Big Branch Mine—Salt
7. Mine ID: 41-DE4360- (Contractor)

Section II—Justification for Action

10.3(k) Order number 46/42503 is hereby modified to include the specific procedures for ventilating the headgate area. This order now is identified as Stage 3 modification #46/42503-J5. The procedures are attached.

Section III—Subsequent Action Taken

Section IV—Inspection Data

MSHA Form 7000-3a, Mar 06 (revised)
### Section I—Subsequent Action/Continuation Data

|----------------------|------------------|---------------------------|--------------------------|--------------|------------------|

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<tr>
<td>Chris Randel</td>
<td>Poseyville Coal Company</td>
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<th>6. Mine</th>
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<tbody>
<tr>
<td>Upper Big Branch Mine—South</td>
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### Section II—Justification for Action

(431k) Order number 46063 is hereby modified to include the attached mine rescue team training & infection control safety practices.

### Section III—Subsequent Action Taken

<table>
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<tr>
<th>B. Extended To</th>
<th>A. Date</th>
<th>Mo</th>
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<th>Yr</th>
<th>B. Time (24 Hr. Clock)</th>
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<th>D. Terminated</th>
<th>E. Modified</th>
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### Section IV—Inspection Data

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<td>623 64 45</td>
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MSHA Form 7000-3a, Mar 85 (revised)
Section I—Subsequent Action/Continuation Data

1. Subsequent Action [ ]
2. Dated (Original Issue) 04/05/10
3. Citation/Order Number S66125023-32

4. Served To
   Chris Adkins
5. Operator
   Performance Coal Company
6. Mine
   Upper By Bunch Mine—Secta
7. Mine ID
   46 081434

(Contractor)

Section II—Justification for Action

103(k) Order number S66125023 is hereby modified to implement the April 12, 2010 Recovery Process Addendum (Safety Prevention STAGE 3 Operations). This will allow removal of [redacted] without ventilating the entry and of Head Gate Panel 22 (14 x-cut to face area). The plan also requires installation of a continuous exhaust fan on the bore hole in Headgate Panel 22 after the mine is evacuated. The temporary seals of x-cut 140 in 8 x-cut panel will be left intact.

Section III—Subsequent Action Taken

B. Extended To
   A. Date
   B. Time (24 Hr. Clock)
   C. Vacated
   D. Terminated
   E. Modified

Section IV—Inspection Data

B. Type of Inspection
   10. Event Number

E09
6286065

12. Date
   A. Date
   B. Time (24 Hr. Clock)

MSHA Form 7000-3a, Mar 85 (revised)
The 103(k) Order 4642503 is hereby modified to allow mining and mining to resume in the overlying Prelow and Palston seam mine on the second shift of April 13, 2010 (Castle Mine, MSHA ID 31-07009). Precautions outlined in the request dated April 13, 2010 by Chris Adkins and signed by Robert B. Herdman April 13, 2010 at 20:16 hours shall be followed to protect miners.
The 103 (K) order 46425083 is hereby modified to allow drilling to be completed in the 8 North Panel area at break 140 of the 8 North Panel (an additional atmospheric monitoring hole), as per request dated April 13, 2012, signed by [Redacted] and [Redacted].
The 103(k) Order # 4642503 is hereby modified to prohibit all underground activities. No one can enter the mine. The only areas of the Upper Big Branch Mine South where activities are not prohibited are the South Portal offices, Ellis Portal offices, adjacent parking areas, access roads, mine shops, and areas where examinations on the surface must be conducted in accordance with regulations.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action
2. Dated (Original Issue) 3. Citation/Order Number
4. Served To 5. Operator
6. Mine

Paul McConnell
Performance Coal Company
Upper Big Branch Mine—South

Section II—Justification for Action

183(k) Order 46425825 is hereby modified to allow this company to implement the borehole installation stage I plan dated 04/18/2010 at 16:15 hours and to modify subsequent actions.

27 to show item 2 to read “04/05/10” and item 11 to read “23429”;

22 to show item 13 to read “0025”;

23 to show item 13 to read “0054”;

29 to change the date “4/14/2010” to “4/14/2010” and

35 to change item 18 from “4642583” to “6286065”.

Section III—Subsequent Action Taken

B. Extended To
A. Date  B. Time (24 Hr. Clock)
C. Vacated  D. Terminated  E. Modified

Section IV—Inspection Data

9. Type of Inspection 10. Event Number

MSHA Form 7000-3a, Mar 85 (revised)
**Section I—Subsequent Action/Continuation Data**

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<td>Performance Coal Company</td>
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</table>

**Section II—Justification for Action**

103(K) order 4642585 is hereby modified to allow air quality sampling of the exhausting head-tem at 16 hour intervals.

**Section III—Subsequent Action Taken**

8. Extended To
   - A. Date
   - Mo
   - Da
   - Yr
   - B. Time (24 Hr. Clock)
   - C. Vacated
   - D. Terminated
   - E. Modified

**Section IV—Inspection Data**

9. Type of Inspection
   - 09
10. Event Number
    - 6286865
11. Signature
    - [Redacted]
12. Date
    - 04/23/18
13. Time (24 Hr. Clock)
    - 12:00
Section I—Subsequent Action/Continuation Data

1. Subsequent Action
   1a. Continuation

2. Dated (Original Issue)
   No. 36
   Da: 10
   Yr: 2016
   Citation/Order Number: 16712583

4. Served To
   Wayne Persinger

5. Operator
   Kentucky Coal Company

6. Mine
   Upper Big Branch Mine—South

7. Mine ID
   16-058426

Section II—Justification for Action

103(K) order 16712583 is modified to allow the Company to implement a fugitive injection plan for the 8-001 Area. This plan is dated 04/23/2016 @ 17000 hours.

Section III—Subsequent Action Taken

8. Extended To
   See Continuation Form

9. Type of Inspection
   E09

10. Event Number
    62860865

11. Inspector
    [Redacted]

12. Date
    04/23/10

13. Time (24 Hr. Clock)
    1700

MSHA Form 7000-31, Mar 85 (Revised)

Note: See Continuation Form for additional information.
The order 4642583 is hereby modified to allow the operator to implement a GH-1 Production Plan dated April 27, 2010.
April 27, 2010

Mr. [Redacted]
Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880

Mr. [Redacted]
WVOMHS&T
142 Industrial Drive
Oak Hill, WV 25901

Re: Performance Coal Company
Upper Big Branch Mine
MSHA ID: 46-08436
State ID: U-3042-92
Borehole Plan

Dear Sirs,

Performance Coal Company is requesting permission to drill an additional monitoring hole, GH-1, into the Upper Big Branch Mine. This hole will be drilled into the longwall gob to monitor the atmosphere. The hole location is shown on the included map. The finished diameter of the hole is expected to be 8 inches. A ¾” steel sampling pipe will be installed from the surface down to the bottom of the hole. The bottom 5’ of the sampling pipe will be perforated so that a sample may be drawn from the mine atmosphere.

The exact location of the hole may vary slightly as conditions dictate. The hole will be drilled as deep as possible within the gob area, in an attempt to drill to the Eagle Horizon.

Safety Precautions for Drilling GH-1
- Only those necessary to operate the drill rig will be allowed in the drilling area.
- The final 100’ of the hole will be drilled using wet drilling procedures.
- A person qualified in gas testing shall continuously monitor Methane, Oxygen, and Carbon Monoxide at the drill operator’s location.

Should you have any questions or concerns feel free to contact me at your convenience at (304) 854-1761.

Respectfully Submitted
Performance Coal Company

[Redacted]
Chief Engineer
103(K) order number 4642585 is hereby modified to allow this Company to implement a plan dated May 5, 2010 to ventilate the S-North Area with exhausting fans on 2A, 2B and 15B collecting.
May 5, 2010

Mr.
Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880

Mr.
WVOMHS&T
142 Industrial Drive
Oak Hill, WV 25901

Re: Performance Coal Company
   Upper Big Branch Mine
   MSHA ID: 46-08436
   State ID: U-3042-92
   Ventilation of 8 North Area

Dear Sir,

Performance Coal Company is requesting permission to install exhausting fans on boreholes 2A, 2B and 15B. The installation of exhausting ventilation fans on the surface will allow for Performance Coal to ventilate the 8 North Area, prior to re-entry into the Upper Big Branch Mine. Fans to be started simultaneously. Air quantity will immediately be measured and MSHA, OMHS&T and Miner’s Representative will be notified immediately.

The exhausting air will be monitored from the 8 North Area to develop a trend line of the atmosphere of the 8 North Area.

Nitrogen injection will cease during ventilation of the 8 North Areas. Should sampling results indicate that the 8 North Area require additional nitrogen injection; Performance Coal Company may re-implement nitrogen injection into the area through borehole 2A, 2B and 15B with MSHA, OMHS&T and Miner’s Representative will be notified immediately.

If you should have any questions or concerns feel free to contact me at (304) 854-3508.

Respectfully Submitted
Performance Coal Company

Cc: Miners Representative by fax and mail
103(K) order 4642583 is hereby modified to allow this company to implement the "Bendixtown Ten-Temporary Shut Down" plan submitted to MSHA on May 11, 2000.
Section I—Subsequent Action/Continuation Data

<table>
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<th>5. Operator</th>
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<tr>
<td>Charlie Bease</td>
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<tr>
<td>Upper Big Branch Mine-South</td>
<td>746-08436-</td>
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</table>

Section II—Justification for Action

The 103(k) order 4642503 is hereby modified to allow this company to implement a plan to drill two additional boreholes into the mine. The "2D and 100BH Borehole Plan" submitted to MSHA on May 11, 2012. A sampling pipe will be installed into existing borehole (BHA) also under this plan.

Section III—Subsequent Action Taken

Section IV—Inspection Data

MSHA Form 7000-3a, Mar 85 (revised)
Section I—Subsequent Action/Continuation Data

4. Served by: Charlie Beavers
   5. Operator: Performance Coal Company
   6. Mine: Upper Big Branch Mine, South

Section II—Justification for Action

103(k) order 4642583 is hereby modified to allow the operator of this mine to implement a "Verification of Sample Results Hole 21-2" plan dated May 14, 2010.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action [ ] Continuation [ ]

2. Dated (Original Issue) 04/05/18

3. Citation/Order Number 4642503

4. Served To

   Jason Whitehead
   Performance Coal Company

5. Operator

   Upper Big Branch Mine-South
   (Contractor)

7. Mine 146-08736

Section IV—Justification for Action

103(k) order number 4642503 is hereby modified to allow persons to work on the surface bench area of the Ellis Portal of this mine for the purpose of constructing compressed air lines.
Section II - Justification for Action

(03(K) order number 4642503 is hereby modified to allow this Company to implement the "Re-Entry Plan for Rapid Assessment of Forquell Area" dated 21, 2018 after HG-21-1 volume analysis been completed into the mine, air quality sampling has been completed, and consensus agreement between the Company, State, mine representative, and MSHA that the air quality at all sampling points is adequate to enter the mine.)
Section I—Subsequent Action/Continuation Data

1. Subsequent Action 1a. Continuation
2. Dated (Original Issue) 3. Citation/Order Number 4.62503-16

5. Operator Performance Coal Company

6. Mine Upper Big Branch Mine South 7. Mine ID 136 23454 (Contractor)

Section II—Justification for Action

103(k) order number 4642503 is hereby modified to allow this Company to implement a "Temporary Shut Down of Southside Fan" plan dated May 27, 2010.

See Continuation Form

Section III—Subsequent Action Taken

8. Extended To

Section IV—Inspection Data


MSHA Form 7000-3a, Mar 35 (revised)
### Section I—Subsequent Action/Continuation Data

1. Subsequent Action: [ ]
2. Dated (Original Issue): 04/05/18
3. Citation/Order Number: 4642503
4. Expiration Date: 07-
5. Operator: Performance Coal Company
6. Mine: Upper Big Branch Mine—Smith

### Section II—Justification for Action

103 (k) order number 4642503 is hereby modified to allow this company to implement "Re-Entry Plan for Rapid Assessment of Longwall—Advantum" dated June 1, 2018 and received by MSHA on June 2, 2018 @ 0700 hours.

### Section III—Subsequent Action Taken

B. Extended To: 

### Section IV—Inspection Data

9. Type of Inspection: E019
10. Event Number: 6286865
11. AB Number: [Redacted]
12. Date: 08/21/18
13. Time (24 Hr. Clock): 18:00
103(K) order 4642503 is hereby modified to allow the removal of two portal jasures which are visible from the surface at the North Portal of this mine.
103 (K) order number 4642503 is hereby modified to allow a two (2) member film crew to shoot footage of the Company, State, and MSHA mine rescue team members entering the mine at the Ellis Portal on May 2, 2010. The film crew must remain at least 100 feet from any mine opening and away from blast line exposure by any mine opening. The film crew members must be accompanied by a representative of the Company, State, MSHA and a representative of the Miners at all times while on mine property. The film footage must include the Company, State and MSHA mine rescue team member interviews will be allowed. The command center must be notified when the two (2) member film crew leaves mine property. Appropriate hazard training must be provided prior to this project beginning.
103(K) order number 4642503 is hereby modified to allow this operator to implement a plan entitled "Plan to Secure Belt and Truck at LSB 7ile Portal" submitted to MSHA on 6/2/2018.
103 (K) order number 4642583 is hereby modified to allow this Company to implement a plan entitled "HC 21-1 addendum #1" submitted to MSHA on June 3, 2010. This plan was discussed with the State and the Representative of the Mine and addresses dilution of methane present at the collar of the HC 21-1 shaft.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action [ ]

2. Dated

3. Citation/Order Number

4. Served By

5. Operator

6. Miner

Section II—Justification for Action

(Revise) Order Number 4682603 is hereby modified to allow the company to implement a "Revised Mine Re-Entry Plan" dated June 5, 2010 and presented to MSHA on 06/16/2010 at 08:45 hours.

Section III—Subsequent Action Taken

8. Extended To

Section IV—Inspection Data

9. Type of Inspection

10. Event Number

11. Inspector [Redacted]

12. Date

13. Time (24 Hr. Clock)
Section I—Subsequent Action/Continuation Data

1. Subsequent Action 1a. Continuation

2. Dated (Original Issue) 3. Citation/Order Number
   8/4/05 10 464250353

4. Served To
   Christopher Prater
   Upper Big Branch Mine Field
   Mine ID: 146-087436
   Operator: Performance Coal Company (Contractor)

Section II—Justification for Action

103(K) order number 4642503 is hereby modified to allow this company to implement a plan entitled "Borehole 40 and 41" submitted to MSHA on May 25, 2010.

Section III—Subsequent Action Taken

Section IV—Inspection Data

9. Type of Inspection

10. Event Number 62816865

11. Scene Id: [Redacted]

12. Date 8/4/08

13. Time (24 Hr. Clock) 11:25
Section I—Subsequent Action/Continuation Data

1. Subsequent Action: [Blank]
2. Date: (Original Issue)
   - Mo: [Blank]
   - Da: [Blank]
   - Yr: [Blank]
3. Citation/Order Number: 4642583-154
4. Served To: Chris Parker
5. Operator: Performance Coal Company
6. Mine: Upper Big Branch Mine South
   - Mine ID: 156-108436
   - Contractor: [Blank]

Section II—Justification for Action

103(k) order number 4642583 is hereby modified to allow this operator to implement a "Re-Entry Plan for Rapid Assessment of Longwall Addendum II" received by MSHA on 6/16/16 and dated by the company on June 9, 2016.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action: [Blank]
2. Dated (Original Issue): [Blank]
3. Citation/Order Number: 4642583 - 55
4. Served To: Chris Prater
5. Operator: Performance Coal Company
6. Mine: Upper Big Branch Mine - South
7. Mine ID: [Blank]
8. (Contractor)

Section II—Justification for Action

103 (k) Order 4642583 is hereby modified to allow this company to implement a "Re-Entry Plan Upper Big Branch Mine - Addendum I" dated June 11, 2012.

See Continuation Form

Section III—Subsequent Action Taken

8. Extended To
A. Date: [Blank]
B. Time (24 Hr. Clock): [Blank]
C. Vacated: [Blank]
D. Terminated: [Blank]
E. Modified: [Blank]

Section IV—Inspection Data

9. Type of Inspection: [Blank]
10. Event Number: [Blank]
11. [Blank]
12. Date: [Blank]
13. Time (24 Hr. Clock): [Blank]
**Section I—Subsequent Action/Continuation Data**

1. Subsequent Action: 
3. Citation/Order Number: 116512583
4. Server: Chris Prater
5. Operator: Performance Coal Company
6. Mine: Upper Big Branch Mine South

---

**Section II—Justification for Action**

108(R) order 4682583 is hereby modified to allow this company to implement a "Relocating (Old North Mine)" plan dated June 11, 2010.

---

**Section III—Subsequent Action Taken**

8. Extended To: A. Date: 
9. Type of Inspection: EPA
10. Event Number: 6286865
11. AR Number: 
12. Date: 06/11/10
13. Time (24 Hour Clock): 08:00

---

**Section IV—Inspection Data**

MSHA Form 2000-3a, Mar 85 (revised)
Section II—Justification for Action

103(R) order number 4642583 is hereby modified to allow this company to implement a "Retrofitting (Old North Mine) - Attendance" plan dated June 11, 2010. This plan was presented to MSHA on June 11, 2010 at 8:00 hours. This plan was discussed with the representative of the miners and a state representative.
10.3(k) order 4642503 is hereby modified to allow this Company to implement a "Re-Entry Plan Upper Big Branch Mine—Addendum II," dated June 15, 2010. Verbal approval was provided by MSHA on June 15, 2010 at 16:57 hours.
**Section I—Subsequent Action/Continuation Data**

1. Subsequent Action: 
3. Citation/Order Number: 4642583
4. Served To: Dwayne Friston
5. Operator: Performance Coal Company
6. Mine: Upper Big Branch Mine South
7. Mine ID: 46-088336

**Contractor:**

**Section II—Justification for Action**

103(K) order number 4642583 is hereby modified to release the Brooksville battery powered personnel carrier designated as the "Job Martrix" from the restriction of the 103(K) order.

---

**Section III—Subsequent Action Taken**

8. Extended To:
   - Date: 
   - Mo: 
   - Da: 
   - Yr: 
   - Time (24 Hr. Clock): 
   - C. Vacated: 
   - D. Terminated: 
   - E. Modified: 

**Section IV—Inspection Data**

9. Type of Inspection: EOG
10. Event Number: 
11. Employee Name: 
12. Date: 8/16/19
13. Time (24 Hr. Clock): 1437

MSHA Form (7000-8s, Mar 85 Revised)
103(k) order number 4642583 is hereby modified to allow this Company to implement a "Upper Big Branch Re-Entry Plan-Addendum II" dated 16 June, 2010.
Section I—Subsequent Action/Continuation Data

1. Subsequent Action

2. Dated (Original Issue) Mo Da Yr

3. Citation/Order Number 4642503-61

4. Served To

Chris Bater

5. Operator Performance Coal Company

6. Mine

Upper Big Branch Mine South

7. Mine ID 96-08936- (Contractor)

Section II—Justification for Action

103(k) order 4642503 is hereby modified to allow this Company to implement a "Upper Big Branch Re-Entry Plan-Addendum IV" submitted to the Mine Representative, the State and MSHA on June 18, 2018.

See Continuation Form

Section III—Subsequent Action Taken

8. Extended To

A. Date Mo Da Yr

B. Time (24 Hr. Clock)

C. Vacated

D. Terminated

E. Modified

Section IV—Inspection Data

9. Type of Inspection E09

10. Event Number 6286865

11. Inspection #: 

12. Date Mo Da Yr

13. Time (24 Hr. Clock) 8645

MSHA Form 7000-3a, Mar 86 (revised)
165 (R) order number 4642583 is hereby modified to allow this company to implement a "Re-Entry Plan Upper Big Branch Mine Addendum V" plan dated June 29, 2018 and to acknowledge a "Upper Big Branch Re-Entry Plan - Addendum IV Revised Copy". Both the Addendum V and the Revised Addendum IV were received by the Representative of the Mine, the date and MSHA at 12:30 hours on June 21, 2018.
June 21, 2010

Mr. [Redacted]
Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880

Mr. [Redacted]
WVOMHS&T
142 Industrial Drive
Oak Hill, WV 25901

Re: Performance Coal Company
Upper Big Branch Mine
MSHA ID: 46-08436
State ID: U-3042-92
Re-Entry Plan Upper Big Branch Mine – Addendum V

Dear Sir,

Performance Coal Company is requesting permission to allow for removal of SCSR units from the most outby existing storage caches in the Upper Big Branch Mine. This storage unit is located at break 60 of North Mains. All units removed will be from locations outby the Ellis Switch. Removal of these units is necessary to allow the company to implement Addendum IV of the Upper Big Branch Mine Re-Entry Plan. Mine rescue members will log the number and location of each unit that is removed from the storage location.

If you have any questions or concerns feel free to contact me at (304) 854-3401.

Respectfully Submitted,

On Behalf of Performance Coal Company

Cc: Miners Representative
June 18, 2010

Mr. [Redacted]
Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880

Mr. [Redacted]
WVOMHS&T
142 Industrial Drive
Oak Hill, WV 25901

Re: Performance Coal Company
Upper Big Branch Mine
MSHA ID: 46-08436
State ID: U-3042-92
Upper Big Branch Re-Entry Plan – Addendum IV Revised Copy

Dear Sir,

Performance Coal Company is requesting a modification to the currently approved Upper Big Branch Re-Entry Plan. This modification will affect explorations in Zones 8 – 10. Explorations have been conducted in Zones 1-7 with conditions that have permitted bare-faced explorations. The headgate and tailgate entries, including the longwall face, have also been evaluated up to 1,000 feet inby the longwall face during the Rapid Examination of the Longwall Area phase. The examinations of these areas have also yielded atmospheres capable of being explored under bare-faced explorations. Furthermore, sampling results from Borehole 21-2, and the Bandytown fan have indicated that atmospheres are capable of being explored with bare-faced team members.

- Zones 8 – 10 shall be examined with teams leaving their mine rescue apparatus at stations near the Fresh Air Bases established previously at the longwall face, on the headgate and tailgate entries, depending on their examination route. These Fresh Air Bases are established near longwall push up stations 55+00.

Headgate Tailgate Examination (Zone 9)

- All team members (exploration, and backup) shall carry 2 one hour approved SCSR’s while exploring inby the longwall face in Zone 9. Should conditions permit each exploration team member shall drop one of their SCSR’s at phone location #57 to establish a temporary cache for explorations inby this location.

Tailgate Headgate Examinations (Zone 8)

- All team members (exploration, and backup) shall carry 2 one hour approved SCSR’s while exploring inby the longwall face in Zone 8. Each exploration team member shall drop one of their SCSR’s at phone location #43 to establish a temporary cache for explorations inby this location. Each backup team member shall drop one of their SCSR’s at phone location 47 for explorations inby this location in Zone 10.

Zone 10

- Teams shall carry a one hour approved SCSR during explorations of the Zone 10 area.

Should conditions be found that indicate atmospheres of less than 19.5% Oxygen, or greater than 25 ppm CO teams shall immediately retreat to the last established phone location and report the readings to the command center.
Teams shall explore Zones 8 – 10 at the direction of the command center according to conditions as found in the mine.

The Fresh Air Base shall be advanced in 1,000’ intervals.

All previously approved plan safety precautions will be followed during explorations of zones 8-10.

If you have any questions or concerns feel free to contact me at (304) 854-3402.

Respectfully Submitted,

[Redacted]

On Behalf of Performance Coal Company

Cc: Miners Representative
Section I—Subsequent Action/Continuation Data

1. Subsequent Action 1a. Continuation □

2. Dated (Original Issue) 3. Citation/Order Number

4. Served To

5. Operator

6. Mine

Upper Big Branch Mine—South

7. Mine ID

X6-136136

(Contractor)

Section II—Justifying for Action

193(k) order number 4642503 is hereby modified to allow this Company to implement a "Upper Big Branch Re-Entry Plan Addendum V" plan presented to MSHA on 6/23/2016 at 0745 hours. A copy of this plan was also presented to the Representatives of the Mines and the State.

See Continuation Form □

Section IV—Inspection Data

9. Type of Inspection

10. Event Number

MSHA Form 7000-3a, Mar 35 (revised)
June 23, 2010

Mr. [redacted]
Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880

Mr. [redacted]
WVOMHS&T
142 Industrial Drive
Oak Hill, WV 25901

Re: Performance Coal Company
Upper Big Branch Mine
MSHA ID: 46-08436
State ID: U-3042-92
Upper Big Branch Re-Entry Plan Addendum VI

Dear Sir,

Performance Coal Company is requesting permission to implement the attached plan for ventilation of the 8 North, 22 Headgate, and 22 Tailgate Areas. Explorations are completed, to the extents possible in these areas. Safety precautions and a ventilation map are attached.

If you have any questions or concerns feel free to contact me at (304) 854-3402.

Respectfully Submitted,

On Behalf of Performance Coal Company

Cc: Miners Representative
Safety Precautions

Upper Big Branch Re-Entry Plan Ventilation of 8 North, 22 Headgate, and 22 Tailgate

General Safety Precautions

- All work shall be done at the direction of the command center.
- All work shall be done by mine rescue team members.
- Prior to ventilation of any area, a pre-shift style examination shall be conducted in the projected work area for the day.
- Mine Rescue team members shall be permitted to clear a path for battery operated equipment as to allow for sufficient supplies to be delivered to the mouth of 22 Headgate. Prior to removing any object, the area shall be called out to the command center, mapped, and photographed.
- Ventilation controls shall be established utilizing pogo sticks, lock-in-loads, and brattice cloth.
- All members shall carry a 1 hour approved SCSR. Caches of SCSR shall be established as outlined below.
- Should conditions be found that indicate atmospheres of less than 19.5% Oxygen, or greater than 25 PPM CO teams shall immediately retreat to the last established phone location outby the location of the reading and report the readings to the command center.
- Should sampling results from the Bandytown Fan location or borehole 21-2 indicate atmospheres of greater than 0.5% CH4, oxygen levels below 20.0%, or CO levels in excess of 5 ppm the command center shall be notified immediately, and teams will be withdrawn from the mine.
- Teams shall be permitted to retrieve additional rescuers from outby storage caches. These rescuers shall be retrieved from the most outby storage location, and shall be logged by serial number and location prior to removal.
- Any deviation from the planned location for temporary controls shall be placed on the team map, and the command center shall be notified.

Stage I: Headgate 22

- Examinations of the temporary ventilation controls previously established shall be made while advancing in Headgate 22. Teams shall report their conditions to the command center. No repairs of the temporary controls are permitted without the proper approvals from the command center.
- Ventilation controls A, and B will be removed.
- Temporary controls will be constructed, as conditions allow in the mine, as shown on the attached map. Should conditions prohibit controls to be placed between the #1 and #2 entries, controls shall be constructed, as to ventilate the face area.
- After completion of the ventilation controls as shown on the attached map, the exhausting fan located at borehole location 1B will be removed from service, to facilitate the installation of the Tygon tubing.
- Flexible tubing shall be lowered down borehole 1B, and extended to the furthest point of advance, as conditions allow in the mine, for the purpose of allowing future pre-shift examinations.
• Team members shall establish an SCSR Cache at phone location 71 in the North Glory mains. This storage cache shall be established so that there are an adequate number of SCSR units for every person working in by this location.
• A team member shall monitor the return air course at all times during ventilation of the area. This team member shall immediately notify the working teams, and the command center should methane levels exceed 2% in the return air course.
• Any area where victims were recovered from the mine shall be decontaminated with a 10% Clorox solution by team members.

Stage II: 8 North Area

• Team members shall construct stopping I, at break 130 of the North Glory Mains.
• Stopping K shall be removed.
• Temporary controls C, D, E, F and G shall be constructed next.
• Temporary controls will be constructed, as conditions allow in the mine, as shown on the attached map. Should conditions prohibit controls to be placed between the #3 and #4 entries, controls shall be constructed, as to ventilate the face area.
• After all controls have been established at a point in by the temporary seals location, the exhausting fan located at borehole location 2B will be removed from service, to facilitate the installation of the Tygon tubing.
• Flexible tubing shall be lowered down borehole 2B, and extended to the furthest point of advance, as conditions allow in the mine, for the purpose of allowing future pre-shift examinations.
• Control H will be installed at the direction of the command center.
• All controls previously built near break 130 shall be evaluated and repaired at the direction of the command center.
• The storage cache previously established at phone location 71 shall remain in place for operations in the 8 North Area.
• A team member shall monitor the return air course at all times during ventilation of the area. This team member shall immediately notify the working teams, and the command center should methane levels exceed 2% in the return air course.

Stage III: Tailgate 22

• Temporary controls will be constructed, as conditions allow in the mine, as shown on the attached map. Should conditions prohibit controls to be placed between the #1 and #2 entries, controls shall be constructed, as to ventilate the face area.
103(k) order number 46425803 is hereby modified to allow this operator to implement a "Pit-Track Plan-Upper Big Branch Mine" submitted to MSHA on June 24, 2010. A copy of this plan was also presented to the representative of the Mines and State Representatives.
Section I - Subsequent Action/Continuation Data

1. Subsequent Action  1a. Continuation
2. Dated (Original Issue)  3. Citation/Order Number
4. Served By  5. Operator
6. Mine

Section II - Justification for Action

103(k) order 4642583 is hereby modified to allow this Company to implement the "Investigation Plan for 6/25/2010" submitted to MSHA on 6/24/2010 @ 15:22:25. This plan is approved for use on 6/25/2010 only and will be null and void after the joint investigation team exits the mine on 6/25/2010. This plan was discussed with the Representative of the Mine's A full re-entry plan for subsequent dates must be submitted by 12:00/noon on 6/25/2010.

Section III - Subsequent Action Taken

Section IV - Inspection Data
103(k) Order number 4642503 is hereby modified to allow investigation teams to enter the mine. This modification is issued to insure the safety of any person in the mine, including all accident investigation team members. All investigation activities shall proceed according the Upper Big Branch Mine-South – Accident Investigation Protocols dated June 24, 2010. The protocols shall apply to all work in the mine, including any walkthroughs that are conducted. In no case shall the protocols be deviated from without prior approval from The Department of Labor, Mine Safety and Health Administration (MSHA), and the State of West Virginia, Office of Miners' Health, Safety and Training (OMHS&T).
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<tr>
<td>Reason</td>
<td>103 (K) order 4642503 is modified to allow the company to implement an Investigation Support Plan for the entire mine. This plan is dated June 25, 2010.</td>
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Change From To

Reason 103 (K) order 4642503 is hereby modified to allow the company to implement a track rehabilitation plan for the area from the North Portal to the #47 break on the Old North Mains. This plan is dated June 25, 2010.
**Change**

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**Reason** Change the condition or practice to allow the removable of equipment from the Ellis portal.

This modification is being made to allow for only the removable of the two Jitney personnel carriers, company number 2 serial number 8259 and company number 12 serial number UBB-12 through the Ellis portal. Per request received from Performance Coal Company on June 27, 2010. Removal of these two mantrips shall only take place under the direct supervision of an Authorized Representative of MSHA. If these two mantrips can not be removed under their own power a plan shall be submitted for approval before any other extraction efforts of the above mentioned equipment is made.