

<b>UNDERGROUND MINE FILE</b>
DATE FWD. 6/13/07
INITIALS <i>sm</i>

Coal Mine Safety and Health  
District 9

JUN 13 2007

Gary Peacock  
General Manager  
Genwal Resources, Inc.  
P.O. Box 1077  
Price, UT 84501

PC

Surname	Date
<i>AB</i>	6/11/07
<i>[Signature]</i>	6-12-07
<i>KNERP</i>	6/13/07
<i>[Signature]</i>	

AL

RE: Crandall Canyon Mine  
ID No. 42-01715  
Emergency Response Plan

Dear Mr. Peacock:

The Mine Safety and Health Administration (MSHA) has reviewed the Emergency Response Plan (ERP) submitted by the Crandall Canyon Mine, dated June 3, 2007, consisting of a cover letter and 8 pages. This ERP has been reviewed to determine compliance with the provisions of Section 2 of the Mine Improvement and Emergency Response Act of 2006 (MINER Act), 30 U.S.C. § 876, and relevant Federal Mine Safety and Health Act standards and regulations. Based on this review, we have approved the ERP in its entirety.

All portions of this ERP must be implemented immediately, with the exception of the breathable air provisions, which must be implemented by 60 days from the date of this letter. The failure to implement all of the ERP provisions and/or to conduct miner training in a timely manner will result in a citation.

In accordance with the MINER Act, at least once every six months, MSHA will review each ERP to determine whether an ERP could be amended to enhance miners' ability to evacuate or otherwise survive in an emergency. In addition, operators must periodically update their ERPs to reflect: changes in operations in the mine, such as a change in systems of mining, changes in mine layout, or relocation of escapeways; advances in technology; or other relevant considerations. MSHA approval must be obtained before any changes to an existing ERP are implemented. You are also required to make this ERP available to all miners and miners' representatives.

EC

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If you have any questions concerning the implementation of the ERP, please contact Bill Reitze at (303) 231-5458.

Sincerely,

/s/Allyn C. Davis

Allyn C. Davis  
District Manager

cc: Jim Poulson

bcc: EC ERP (original surname & plan)  
Price #2 FO (surname & plan)  
Price #2 UMF (surname & plan)  
(surname & plan)  
VG ERP 52140 b5 (surname & plan)  
VG MHF (surname & plan)  
D-9 Chron (surname only)

t:\coal\Vent\hs\4201715\ERPb5.doc

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CM SH



Genwal Resources, Inc.  
a Subsidiary

Hwy 31 MP 33, Huntington, UT 84528  
PO Box 1077, Price, UT 84501  
Phone: (435) 888-4000  
Fax: (435) 888-4002

Mr. Allyn C. Davis  
District Manager  
Mine Safety and Health  
Administration PO Box 25367  
Denver, Colorado 80225-0367

June 3, 2007

# 52140-85  
**RECEIVED**  
JUN 07 2007

USDOL - MSHA - CMS&H  
DISTRICT 9

Re: Amended ERP Mine ID# 42-01715 Crandall Canyon Mine

Dear Mr. Davis;

The intent of this letter is to request approval of the attached amended Emergency Response Plan (ERP) which has been amended to reflect the comments received in the letter dated May 25, 2007. This amended ERP includes the addition of post-accident breathable air, barricading and trapped-miner maintenance materials at outby locations;

Thank you,

Jim Poulson  
Safety Manager  
Utah American Energy Inc.

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## EMERGENCY RESPONSE PLAN

The following program of storage and location of self-rescuers and escape lifelines and other emergency materials is adopted in accordance with 30 CFR part 75 requirements.

Submitted by: Jim Poulson

Date: June 3, 2007

Company: UtahAmerican Energy, Inc.

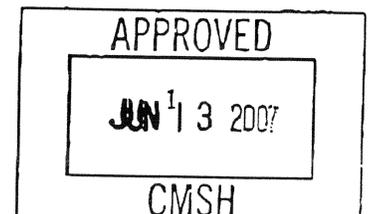
Mine: Crandall Canyon Mine  
Mine I.D # 42-01715

### Self-Rescuers

- 1) Storage locations shall be designated and maintained in accordance with 30 CFR, 75.1714-4. The seam height being more than 65", the caches will not exceed 5700 feet apart, including bleeders and beltlines.
- 2) Caches of self-rescuers will be established in both the primary and secondary escape ways at distance-intervals determined in the fore mentioned criteria. The actual locations and number of self-rescuers in storages will be noted on all escapway maps and the mines ventilation map and list below
  - Main West x-c 27 ( 20 SR-100 in Primary and 20 SR-100 in Secondary)
  - Main West x-c 75 ( 20 SR-100 in Primary and 20 SR-100 in Secondary)
  - 1<sup>st</sup> South Mains X-C 18 bleeder ( 1 SR-100 in travel way)
  - 1<sup>st</sup> West X-C 15 bleeder ( 1 SR-100 in travel way)
  - All of the SCSRs in the Crandall Mine are SR-100s of the CSE Corporation.
- 3) These cache locations shall be marked in accordance with the requirements of 30 CFR 75.1714-2
- 4) SCSRs will be stored, examined and maintained in accordance to the manufactures and 30 CFR 75.1714-2.
- 5) 1% to 5% of all SCSRs in use on mine property shall be opened annually, to ensure the reliability of the SCSRs.
- 6) SCSRs shall be retired in accordance with manufacturer's recommendations.

### Post Accident Breathable Air

- 1) Post-accident breathable air will be provided within 2000 feet of the loading point of each active working section. A breathable air atmosphere within safe havens, i.e. a barricaded section of an entry, will be provided and maintained through the use of compressed oxygen and soda lime (or equivalent) for carbon dioxide scrubbing. A sufficient number of compressed oxygen cylinders and supply of soda lime will be provided for 18 miners for 96 hours.



- 2) The number of oxygen cylinders required to maintain the post-accident breathable air within a safe haven barricade was calculated using the parameters provided in Attachment 2 to PIB P07-03, i.e. 1.32 ft<sup>3</sup>/hour oxygen consumption per miner at the "assumed breathing rate". Using the 1.32ft<sup>3</sup>/hr oxygen consumption per hour parameter, we have calculated that we will need to provide 9 each "K" size cylinders each having a minimum of 282 ft<sup>3</sup> oxygen per cylinder (1.32x18x96)/282=8.1 bottles).
- 3) Compressed air cylinders will be used for purging the barricade. The compressed air cylinders provided for purging will be three (3) times the amount of barricade volume. Fifteen "K" 6000 psi compressed air cylinders containing 500 cubic foot of air will be required to purge contaminants from a (20' x 18' x 7') barricade. Miners will be instructed to use their SCSR's until the barricaded area is purged of contaminants.
- 4) Pre-packaged soda lime cartridges will be placed in the air powered scrubber to provide carbon dioxide scrubbing capability to prevent contamination within the barricaded area. An addition two compressed "K" 6000 psi cylinders will be used to operate the air powered scrubber. A 96 hour supply of soda lime (or equivalent) will be provided for the maximum number of miners anticipated to use the barricade.
- 5) Outby Work Locations-- Individual sets of post-accident breathable air supplies positioned in intake aircourses will be provided at outby locations in close proximity to every other primary escapeway SCSR cache location. A breathable air atmosphere within safe havens, i.e. a barricaded section of an entry or crosscut, will be provided and maintained through the use of compressed oxygen and soda lime (or equivalent) for carbon dioxide scrubbing. The number of oxygen cylinders and the amount of soda lime (or equivalent) to be provided will be determined using the procedure described above to provide a breathable atmosphere for each location for 96 hours. (refer to mine map for current outby breathable air location(s)).
- 6) Map Locations: The locations of post-accident breathable air supplies shall be shown on the mine maps required under 30CFR 75.1200 and 75.1505.

### Lifelines

- 1) Directional lifelines will be installed in accordance with the requirements of the CFR 75.380 (d) (7) and 75.381 (c) (5).
- 2) The directional lifelines are located in both the primary and secondary escape ways from the surface to each working section or location where mechanized mining equipment is either being installed or removed life line will be installed in such a manner for miners to effectively escape.
- 3) The directional lifelines are marked with reflective material every 25 feet and have directional indicators showing the escape route located at intervals not greater than 100 feet. The small end of the directional cone will be facing in-by.



### Implementation of the plans

Appropriate numbers of self-rescuers and lifelines materials have been ordered in compliance with the requirements of CFR. Implantation of the plan shall commence immediately upon receipt of the material and self-rescuers.

### Post-accident communications

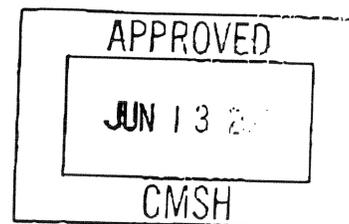
In accordance with PPL #P06-V-10 Crandall Canyon Mine will utilize two hardwired system routed through separate entries for protection of the system.

### Post-accident Tracking

In accordance with PPL #P06-V-10, Crandall Canyon Mine will utilize a dispatcher system that has the function of tracking coal miners underground with the use of a magnetic tracking board and or written log. Tracking zones will consist of 4 haulage zones, section zones, and belt flight zones. Phones will be placed at all zones intersections, at the head of all sections, belt flight exchanges, and in the bleeder travel ways. All areas underground will be marked noting the zone intersections. The tracking board located near the dispatcher will note via magnetic name tags personnel located underground and movement of personnel from Zone to Zone.

### Training

- 1) All miners will be trained in the evacuation procedures and escape ways and in the SCSR storage plan. All miners shall be trained in the donning, transferring and use of self-rescuers in accordance with the manufacturers suggested procedures. Said training shall included practice in the method required to transfer from on self-rescuer to another, assuring proper fit, and at least one training session per year will be conducted in a smoke or "no visibility" simulation.
- 2) All training with the name of the employees and date the training occurred will be recorded in the fire drill book. All miners will participate in mine emergency evacuation drills at a quarterly basis.
- 3) During SCSR expectations training which shall be conducted one quarter of each year, miners shall be trained with SCSR training units that simulate breathing resistance and heat.
- 4) Training shall also include donning and transferring in a simulated smoke environment of SCSR's used at the operation.



### Additional Provisions

The following material will be stored in the "Emergency Materials Skid and/or Trailer" This container will be located within 2000 feet of the working section.

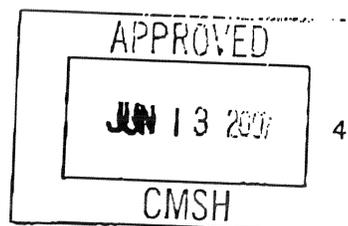
- 1) Two inflatable stoppings or other quick deployable barricade units will be provided within 6 months of becoming commercially available until that time the following will be provided ( material 1 through 8 )
- 2) A sufficient number of brattice boards ( enough to span the width of the entry 4 times)
- 3) No less than 2 polyurethane foam packs and no more than 5 polyurethane foam packs. (With protective gloves & goggles.) To be stored in compliance with MINE HEALTH INSPECTION HAND BOOK chapter 9-2 (b) and the approved ventilation plan.
- 4) 1 roll of brattice.
- 5) 1 spad gun
- 6) 2 lbs of spads
- 7) 2 lbs of washers
- 8) 2 claw hammers
- 9) 2 lbs of #8 nails
- 10) Enough MRE rations (or equivalent) for every miner working on the section to last 96 hours.
- 11) 10 gallons of water.
- 12) 10 chemical light sticks.
- 13) First Aid Kit ( the first aid supplies required by 30 CFR 75.214 meets this requirement)
- 14) A sufficient amount of roof jacks, or timbers with wedges, tools and equipment necessary to install them. ( The material required by 30 CFR 750214 meets this requirement)
- 15) 1 multi gas detector.

### Post Accident Logistics

Command center will be located on the second floor of the warehouse building (AMS Dispatcher and Safety office.) The command center has locking doors on either side in the event of an emergency security personnel will be placed at both doors.

Family accommodation will be located in the main shop in the event of an emergency the shop area will be cleaned out and appropriate tables and chairs will be brought in and set up. The shop area has access to bathrooms, and drinking water. Security personnel will be placed at all entrances to the shop area

Press accommodation will be located 1 mile down from mine property at the Tie Fork turn off. Traffic control will be a combined effort with the company and the Emery County Sheriffs office.



Local Coordination

Local emergency responders shall visit mine property to familiarize themselves with mine location, operation, and personnel. A continued interaction with local law enforcement and emergency services will be implemented between persons on the surface, MSHA and other agencies or departments as needed. Notification shall be given to the following in an emergency situation:

MSHA: One Call 24/7	
AMBULANCE: 911	CASTLE DALE, UT
POLICE: 911	CASTLE DALE, UT
CASTLEVIEW	PRICE, UT
HOSPITAL	
EMERY MEDICAL	CASTLE DALE, UT
POISON CONTROL	
MSHA	PRICE, UT

COMPANY NAMES AND NUMBERS

GARY PEACOCK	ORANGEVILLE, UT
BODEE ALLRED	CLEVELAND, UT
BRUCE HILL	PRICE, UT
JIM POULSON	
LAINA ADAIR	PRICE, UT

MINE RESCUE TEAM

JEFF PALMER	EAST CARBON, UT
HUBERT WILSON	PRICE, UT

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JUN 13 2015

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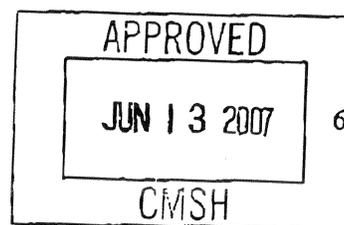
Mine Emergency Suppliers

<u>Nitrogen Pumps and Generators</u>			
<u>Company</u>	<u>City/ State</u>	<u>Phone #</u>	
AIRGAS INTERMOUNTAIN	ROOSEVELT , UT	(435) 722-2344	
PRAXAIR CO	SALT LAKE CITY , UT	(801) 943-7637	

<u>Mine Drilling Services and Equipment</u>			
<u>Company</u>	<u>City/ State</u>	<u>Phone #</u>	
LANG DRILLING	SALT LAKE CITY, UT	(801) 973-6667	

<u>Mine Cranes</u>			
<u>Company</u>	<u>City/ State</u>	<u>Phone #</u>	
NELCO CONTRACTORS	PRICE , UT	(435) 637-3495	
NIELSON CONSTRUCTION	HUNTINGTON ,	(435) 687-2493	

<u>Heavy Equipment</u>			
<u>Company</u>	<u>City/ State</u>	<u>Phone #</u>	
NELCO CONTRACTORS	PRICE , UT	(435) 637-3495	
NIELSON CONSTRUCTION PURCHASNG	HUNTINGTON , UT	(435) 687-2493	



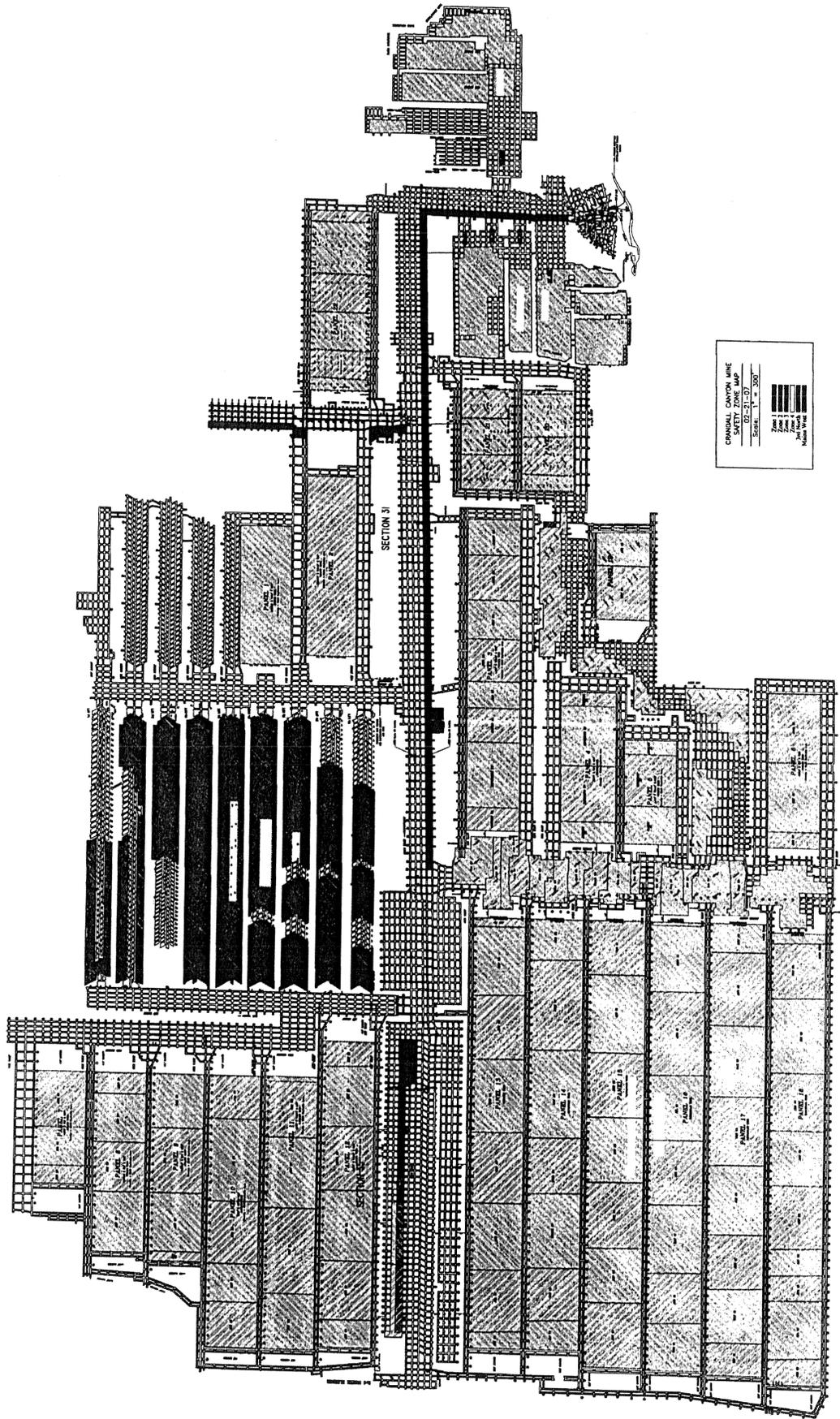
### Gas Detection and Mine Rescue Equipment

<u>Company</u>	<u>City/ State</u>	<u>Phone #</u>	
United Central Supply	Price, UT	(435) 637-4736	
Fairmont Supply	Price, UT	(435) 637-0600	
Bookcliffs Sales	Price, UT	(435) 637-1110	
CSE Corporation		(800) 245-2224	

### Ventilation Sealing Services

<u>Company</u>	<u>City/ State</u>	<u>Phone #</u>	
Micon Mining	Grand Junction, CO	(970) 858-0600	
Minova	Grand Junction, CO	(970) 245-4007	





GRANDALL CANYON MINE  
 SECTION VI  
 SHEET NO. 21  
 SCALE 1" = 200'

[Diagonal lines] Panel 1  
 [Cross-hatch] Panel 2  
 [Vertical lines] Panel 3  
 [Horizontal lines] Panel 4  
 [Stippled] Panel 5  
 [Dotted] Panel 6  
 [Blank] Main Work

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 JUN 13 2005  
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