STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 112009-014

Project Number: 2009-09-026

Parent Company: Midwest Minerals, Inc.

Parent Company Address: P.O. Box 412, Pittsburg, KS 66762

Installation Name: Midwest Minerals, Inc.

Installation ID: PORT-0644

Installation Address: 350 S.E. 100 Road, Jasper, MO 64755

Location Information: Barton County, S9, T30N, R30W

Application for Authority to Construct was made for:

The installation of a new portable rock-crushing plant. The portable plant has a maximum hourly design rate of 500 tons per hour and will use Best Management Practices to control emissions from haul roads and storage piles. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

☐ Standard Conditions (on reverse) are applicable to this permit.

☑ Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

NOV 30 2009

NOV 3 n 2009

EFFECTIVE DATE

DIRECTOR OR DESIGNEE

DEPARTMENT OF NATURAL RESOURCES
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devises shall be operated and maintained as specified in the application, associated plans and specifications. You must notify the Departments’ Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant sources(s).

The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources’ personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.
GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority.”

1. Portable Equipment Identification Requirement
Midwest Minerals, Inc. shall maintain easily read permanent markings on each component of the plant. These markings shall be the equipment’s serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable rock crushing plant.

2. Relocation of Portable Rock Crushing Plant
   A. Midwest Minerals, Inc. shall not be operated at any location longer than 24 consecutive months.
   B. A complete “Portable Source Relocation Request” application must be submitted to the Air Pollution Control Program prior to any relocation of this portable rock crushing plant.
      1.) If the portable rock crushing plant is moving to a site previously permitted, and if the circumstances at the site have not changed (e.g. the site was only permitted for solitary operation and now another plant is located at the site), then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.
      2.) If the portable rock crushing plant is moving to a new site, or if circumstances at the site have changed, then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Record Keeping Requirement
Midwest Minerals, Inc. shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources’ personnel upon request.
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority.”

PORT ID Number: PORT-0644
Site ID Number: 011-0005
Site Name: Jasper Quarry #15
Site Address: 350 S.E. 100 Road, Jasper, MO 64755
Site County: Barton S9, T30N, R30W

1. Best Management Practices Requirement
   Midwest Minerals, Inc. shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing Best Management Practices as defined in Attachment AA.

2. Ambient Air Impact Limitation
   A. Midwest Minerals, Inc. shall not cause an exceedance of the National Ambient Air Quality Standard (NAAQS) for particulate matter less than ten microns in aerodynamic diameter (PM$_{10}$) of 150.0 µg/m$^3$ 24-hour average in ambient air.
   
   B. Midwest Minerals, Inc. shall demonstrate compliance with special condition 2.A using Attachment A or other equivalent forms that have been approved by the Air Pollution Control Program, including electronic forms.

3. Wet Suppression Control System Requirement
   A. Midwest Minerals, Inc. shall install and operate wet spray devices on the following equipment:
      1.) Grizzly Feeder (EP3)
      2.) Primary Crusher (EP4)
      3.) Primary Screen (EP6)
      4.) Secondary Crusher (EP11)
      5.) Secondary Screen (EP13)
      6.) Fines Mill (EP20)
      7.) Finish Screen (EP23)

   B. Watering may be suspended during periods of freezing condition, when use of the wet spray devices may damage the equipment. During these conditions, Midwest Minerals, Inc. shall adjust the production rate to control emissions from these units. Midwest Minerals, Inc. shall record a brief description of such events.
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

4. Minimum Distance to Property Boundary Requirement
   The primary emission point shall be located at least 425 feet from the nearest property boundary.

5. Concurrent Operation Restriction
   Midwest Minerals, Inc. is prohibited from operating whenever other plants are located at the site.

6. Record Keeping Requirement
   Midwest Minerals, Inc. shall maintain all records required by this permit for five years and make them available to any Missouri Department of Natural Resources personnel upon request.

7. Reporting Requirement
   Midwest Minerals, Inc. shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedances of the limitations imposed by this permit.
REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW
Project Number: 2009-09-026
Installation ID Number: PORT-0644
Permit Number:

Midwest Minerals, Inc. Complete: September 16, 2009
350 S.E. 100 Road
Jasper, MO 64755

Parent Company:
Midwest Minerals, Inc.
P.O. Box 412
Pittsburg, KS 66762

Barton County, S9, T30N, R30W

PROJECT DESCRIPTION

Midwest Minerals, Inc. proposes to construct a new portable rock-crushing plant at Jasper Quarry #15 in Barton County (S9, T30N, R30W). The maximum hourly design rate of the plant is 500 tons per hour, and the plant will be located at least 425 feet from the nearest property boundary. There are currently no other plants operating at Jasper Quarry #15 and the facility does not anticipate operating with other plants at this site.

The facility will use one of the methods described in Attachment AA, “Best Management Practices,” to control emissions from haul roads and vehicular activity areas. This installation is located in Barton County, an attainment area for all criteria pollutants.

EMISSIONS CALCULATIONS

Emissions for the project were calculated using emission factors found in the United States Environmental Protection Agency (EPA) document AP-42, Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment were calculated using emission factors from AP-42 Section 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing,” August 2004. The controlled emission factors were used because water sprays will be installed at various points in the process. Emissions from the diesel engines/generators were calculated using emission factors from AP-42 Section 3.3 “Gasoline and Diesel Industrial Engines,” October 1996.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006. A 90% control efficiency was applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-
42, Section 13.2.4 “Aggregate Handling and Storage Piles,” November 2006. The moisture content of the aggregate is 0.7% by weight. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program’s Emissions Inventory Questionnaire Form 2.8 “Storage Pile Worksheet.”

The table below summarizes the emissions of this project. Haul road length and storage pile area may change from site to site. The “potential emissions of process equipment” excludes emissions from haul roads and wind erosion. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year).

Table 1: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level</th>
<th>¹Potential Emissions of Process Equipment</th>
<th>Existing Actual Emissions</th>
<th>²Potential Emissions of the Application</th>
<th>³Conditioned Potential Emissions</th>
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</thead>
<tbody>
<tr>
<td>PM₁₀</td>
<td>15.0</td>
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<td>SO₂</td>
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<tr>
<td>NOₓ</td>
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<td>59.66</td>
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<td>59.66</td>
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<td>1.89</td>
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<td>CO</td>
<td>100.0</td>
<td>12.85</td>
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<td>12.85</td>
<td>4.99</td>
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<td>Total HAPs</td>
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<td>0.05</td>
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<td>0.05</td>
<td>0.02</td>
</tr>
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</table>

N/A = Not Applicable
¹Excludes site specific haul road and storage pile emissions.
²Includes site specific haul road and storage pile emissions.
³Conditioned potential emissions based on daily production limit required to be in compliance with NAAQS, other pollutants proportionately reduced.

AMBIENT AIR QUALITY IMPACT ANALYSIS

An ambient air quality impact analysis (AAQIA) was performed to determine the impact of PM₁₀. The Air Pollution Control Program requires an AAQIA of PM₁₀ for all asphalt, concrete and rock-crushing plants if a permit is required regardless of the level of PM₁₀ emissions. The AAQIA was performed using the Air Pollution Control Program’s generic nomographs. The maximum PM₁₀ concentration that occurs at or beyond the site boundary was compared to the National Ambient Air Quality Standard (NAAQS). Results show that when the plant operates continuously, the modeled concentration of PM₁₀ will be greater than the NAAQS. Therefore, the plant’s daily production is limited to ensure compliance with the NAAQS. The distance from the plant to the nearest property boundary is 425 feet.

This plant will use BMPs to control emissions from haul roads and vehicular activity areas, so emissions from these sources were not included in the AAQIA. Instead, they were addressed as a background concentration of 20.0 µg/m³ of PM₁₀ in accordance with the Air Pollution Control Program’s BMPs interim policy.

The plant does not anticipate operating with any other plants at this site. Therefore, AAQIA was not performed to take into account concurrent operations. If the company decides, in the future, that it would like to operate with other plants at this site, a new permit review will be required.
Table 2: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>1NAAQS (µg/m³)</th>
<th>Averaging Time</th>
<th>Maximum Modeled Impact (µg/m³)</th>
<th>Limited Impact (µg/m³)</th>
<th>Background (µg/m³)</th>
<th>3Daily Limit (tons/day)</th>
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<tbody>
<tr>
<td>PM₁₀</td>
<td>150.0</td>
<td>24-hour</td>
<td>532.63</td>
<td>130.00</td>
<td>20.0</td>
<td>4,659</td>
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</table>

1National Ambient Air Quality Standards (NAAQS), 2Modeled impact at maximum capacity with controls
3Indirect limit based on compliance with NAAQS, 4Solitary operation only.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM₁₀ are above de minimis levels.

APPLICABLE REQUIREMENTS

Midwest Minerals, Inc. shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110. The emission fee is the amount established by the Missouri Air Conservation Commission annually under Missouri Air Law 643.079(1). Submission of an Emissions Inventory Questionnaire (EIQ) is required June 1 for the previous year's emissions.
- No Operating Permit is required for this installation.
- Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170
- Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220
- Restriction of Emission of Odors, 10 CSR 10-3.090

SPECIFIC REQUIREMENTS

- Restriction of Emission of Particulate Matter From Industrial Processes, 10 CSR 10-6.400
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.
- Restriction of Emission of Sulfur Compounds, 10 CSR 10-6.260
STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

________________________________  ______________________________
Chia-Wei Young Date
Environmental Engineer

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated September 14, 2009, received September 16, 2009, designating Midwest Minerals, Inc. as the owner and operator of the installation.


- Southwest Regional Office Site Survey, dated September 24, 2009.
### Daily Ambient Impact Tracking Sheet

**Midwest Minerals, Inc. PORT-0644**

**Project Number: 2009-09-026**

**Site Name:** Jasper Quarry #15  
**Site Address:** 350 S.E. 100 Road, Jasper, MO 64755  
**Site County:** Barton County (S9, T30N, R30W)

This sheet covers the period from _______________ to _______________ (Copy as needed)

<table>
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<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Impact Factor (µg/m³/ton)</th>
<th>Impact¹ (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Background (µg/m³)</th>
<th>Total Impact³ (µg/m³)</th>
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</tbody>
</table>

N/A – Not Applicable

¹Calculate the impact for PORT-0644 by multiplying the daily production by the impact factor.

²This portable plant is not permitted to operate concurrently with any other plants at the site.

³Calculate the total impact by adding the applicable impacts and background. A total of 150.0 µg/m³ or less is necessary for compliance.
Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the portable plant is operating.

1. Pavement
   A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions\(^1\) while the plant is operating.
   B. Maintenance and repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Application of Chemical Dust Suppressants
   A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
   B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacture’s recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources personnel upon request.

3. Application of Water-Documented Daily
   A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
   B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
   C. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads.
   D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rational for not watering (e.g. freezing conditions or not operating).
   E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources personnel upon request.

\(^1\)For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)
<table>
<thead>
<tr>
<th>Description</th>
<th>MHDR Units</th>
<th>²PM₁₀ EF Units</th>
<th>Control Eff.%</th>
<th>Emissions (lb/hr)</th>
<th>Modeling Rate (lb/hr)</th>
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</thead>
<tbody>
<tr>
<td>Truck Loading</td>
<td>500.0000 Tons</td>
<td>0.000016 Tons</td>
<td>0.00</td>
<td>0.0080</td>
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<tr>
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## Attachment BB: Emission Calculations
### Midwest Minerals, Inc.
**Project No.: 2009-09-026**

<table>
<thead>
<tr>
<th>Description</th>
<th>Tons</th>
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<th>Emission Factor (EF)</th>
<th>Modeling Rate</th>
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</table>

1. Maximum Hourly Design Rate (MHDR)
2. Emission Factor (EF)
3. The Modeling Rate is the emission rate scaled to the daily hours of operation at MHDR allow by the permit.
Mr. Curt Brumbaugh  
Director of Safety, Health & Environment  
Midwest Minerals, Inc.  
P.O. Box 412  
Pittsburg, KS 66762

RE: New Source Review Permit - Project Number: 2009-09-026

Dear Mr. Brumbaugh:

Enclosed with this letter is your permit to construct. Please study it carefully. Also, note the special conditions, if any, on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and with your new source review permit application is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact Chia-Wei Young, at the Departments’ Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale  
New Source Review Unit Chief  

KBH: cwyl

Enclosures

c: Southwestern Regional Office  
PAMS File: 2009-09-026  
Permit Number:
MISSOURI DEPARTMENT OF NATURAL RESOURCES
FOLDER TRANSMITTAL ROUTING SHEET

DEADLINE: 12/18/2009  Penalty for Missing Deadline: $

Midwest Minerals, Inc.  2009-09-026

Originator: Chia-Wei Young  Telephone: 6-3835  Date: 12/8/2009
Typist: Linda

File Name: P:\APCP\Permits\Users\Chia Wei Young\New 90 day permits\Quarry Permits\2009-09-026 Midwest Minerals, Inc..doc

FOR SIGNATURE APPROVAL
OF:

☐ DNR Director ☐ DNR Deputy Director  ☐ Division Director  ☐ Division Deputy Director X
Other: James L. Kavanaugh

PROGRAM APPROVAL:
Approved by:  Program: APCP  Date:

Other Program Approval (Section/Unit):  Date:
Comments:

ROUTE TO:
☐ DIVISION DIRECTOR APPROVAL: Date:
Comments:

☐ FINANCIAL REVIEW – DIVISION OF ADMINISTRATIVE SUPPORT:
  DAS Director:  Date:
  Fee Worksheet Received By:  Date:
    Accounting:  Date:
    Budget:  Date:
    General Services:  Date:
    Internal Audit:  Date:
    Purchasing:  Date:
Comments:

☐ LEGAL REVIEW:
  General Counsel:  Date:
  AGO:  Date:
Comments:

☐ DEPARTMENT DIRECTOR APPROVAL: Date:
Comments:

☐ NOTARIZATION NEEDED

INITIALS/DATE