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February 12, 2004
SES-04-005

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FEB 17 2004

Mr. Christopher Kirts, P.E.
Air Program Administrator
Florida DEP
Northeast District
7825 Baysmeadows Way, Suite B200
Jacksonville, Florida 32256-7590

BUREAU OF AIR REGULATION

Subject: Transmittal of Third-Party Audit Report

Dear Mr. Kirts:

Spectrum Environmental Sciences, Inc. (Spectrum) was contracted by the Suwannee American Cement Company (SAC) to perform an independent third party audit of the Branford Plant to meet the requirements stipulated in Florida DEP Final Permit Number 1210465-001-AC, Additional Permit Requirements, Item 31, Third Party Audits.

Enclosed for your review is the audit report. Should you have any questions or comments concerning the audit or its findings, please contact me directly (301-620-1200).

Sincerely,

Thomas F. Iaccarino
President

cc:

A. Linero (Florida DEP)
J. Horton (SAC)

**RESULTS OF THE ANNUAL THIRD PARTY
AUDIT OF THE SUWANNEE AMERICAN
CEMENT COMPANY BRANFORD PLANT**

Prepared by:
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Prepared for:
**Florida Department of Environmental Protection
Northeast District Air Program
7825 Baymeadows Way, Suite 200-B
Jacksonville, Florida 32256-7590**

February 2004

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5. CEMS Calibration Report

1.0 INTRODUCTION

Spectrum Environmental Sciences, Inc. (Spectrum) was contracted by the Suwannee American Cement (SAC) Company to perform an independent annual third party audit as required by Florida DEP Final Permit Number 1210465-001-AC, Additional Permit Requirements, Item 31, Third Party Audits. Additional audit guidance was provided by Mr. Alvaro Linero of the Florida DEP via e-mail to Spectrum on January 23, 2004.

Based on the Permit, Florida DEP guidance, and Spectrum past experience of auditing cement plants, this audit specifically assessed the following areas:

- Overall plant condition
- Physical condition for both process and emission control equipment
- Written operating for both process and emission control equipment
- Plant operator and other training program
- Operator logs to determine historical operating practices related to process equipment and emission controls
- Preventative maintenance schedule for process and control equipment
- Actual repair history and maintenance records for process and control equipment
- Actual operation and maintenance records of the process monitors and continuous monitoring systems (CEMS)
- Personnel responsible for equipment maintenance and repair and training programs
- Records of raw material inputs
- Plant procedures related to pollution prevention and emission control
- Good housekeeping and other issues

These areas are individually addressed in the audit results (Section 3.0).

Spectrum is knowledgeable of both the cement process and air pollution control equipment used at the Branford Plant. Spectrum is also an independent third party to the Suwannee American Cement Company and has previously performed environmental audits, including air quality audits, at over 20 United States Portland cement plants. Spectrum has also given an "Environmental Auditing Workshop for the Portland Cement Industry" at the IEEE/PCA 39th Annual Cement Industry Technical Conference in Hershey, Pennsylvania in April 1997.

2.0 CONDUCT OF THE AUDIT

2.1 Audit Personnel

Spectrum personnel, consisting Mr. Thomas Iaccarino, conducted the third party audit of the Branford Plant on January 26, 2004. Mr. Joe Horton of Suwannee American Cement Company accompanied Mr. Iaccarino during the conduct of the audit. Mr. Iaccarino has nearly 30 years of experience in conducting environmental assessments at Portland cement plants.

2.2 Audit Procedure

The audit consisted of a detailed physical inspection, review of plant records and documentation, and conduct of interviews.

Physical Inspection

An inspection of the Plant was conducted on January 26, 2004. All process equipment at the Plant was visually inspected to determine the physical and operational condition of the equipment. Table 1 lists the process equipment and areas of the Plant which were inspected. Additionally, the fugitive emission transfer points at the quarry, storage hall, fly ash building, and attending silos were also inspected.

Additionally, the air pollution control equipment, consisting of 23 baghouse units, was visually inspected to determine their physical and operational condition. Table 2 lists the air pollution control equipment that was inspected. A listing of the air pollution control equipment was found in the Plant document entitled "*Baghouse Operation and Maintenance Plan*" (Plan) dated July 18, 2002 provided by the Suwannee American Cement Company to Spectrum prior to the conduct of the audit.

Review of Plant Documentation and Records

Actual maintenance and inspection records of the air pollution control equipment listed in Table 2 were reviewed. The requirements of the Plan stipulate a weekly, monthly and annual inspection of the 23 baghouse units and that these inspections are documented using the electronically maintenance and record system Maximo. Also, the actual repair history of plant process and control equipment was reviewed as part of the audit.

Additionally, plant training records and instrument calibration records associated with CEMs and COMs were examined. The audit also included an examination of written plant operation and maintenance procedures, operator logs, plant procedures related to pollution prevention and emission control, and records of raw material input to the system.

Interviews

Interviews were also conducted with Plant personnel. The following SAC personnel were interviewed:

- Mr. Fernando Vasconcelos – Mechanical Maintenance Manager
- Mr. Jerry Powell – Maintenance Supervisor
- Mr. Kurt Hergarten – Control Room Operator
- Mr. Joe Horton – Environmental Manager

3.0 AUDIT RESULTS

Overall Plant Condition

The Plant was found to be in excellent physical condition and from the detailed inspection of the process and emission control equipment, the Plant was found to be well maintained and orderly.

Physical Condition of Process and Emission Control Equipment

Table 3 presents the results of the inspection of the process areas of the Plant. As shown by Table 3, all process areas inspected were demonstrated to be in excellent physical condition and appeared to be operating normally. The only exception was the equipment associated with the operation of the Finish Mill which was down for routine maintenance.

Table 4 provides the results of the inspection of the air pollution control equipment. As shown by Table 4, the air pollution control equipment that was inspected was demonstrated to be in good physical condition and appeared to be operating normally except for the Finish Mill which was down for routine maintenance.

Written Operating Procedures for Both Process and Emission Control Equipment

A 38 volume set of plant operation and maintenance procedures as developed by Polysius are available in both the Control Room and in the Maintenance Office.

Actual Operating Procedures for Both Process and Emission Control Equipment

In addition to the written operating procedures identified above, the Plant has developed and improved a number of these procedures to ensure for a better plant operation.

Examples include:

- A procedure was developed for the operation of the main kiln burner associated with channel and valve positions for improving kiln burner efficiency which results in pollution control for NO_x and improved clinker quality.
- A procedure was developed which resulted in the modification to the discharge end of the sand bin. The discharge end of the sand bin was plugging which resulted in raw mill stoppage and unacceptable downtime.
- Improvement in procedure for preventing baghouse leaks included double clipping the bags instead of vendor recommended single clipping of bags.

Plant Operator and Other Training Programs

Votorantim Cementos (VC), which has operational control of SAC, operates cement plants worldwide, provided the plant operator training for the Plant. This training included a two-week course in Brazil at a VC Plant which is very similar in design to the SAC Plant for control room operators. Additional training was given at the SAC Plant qualified by VC personnel.

BHA is scheduled to provide baghouse maintenance and operation training at the SAC Plant February 3, 2004.

Polysius previously provided training for the kiln, raw mill, clinker cooler, and finish mill systems. Additionally, Polysius was also at the Plant during the audit providing additional plant operator training.

VC is currently providing ISO 9001/14001 training to plant personnel. Certification to ISO 14001 is expected in March/April 2004.

Sick Mahak has provided past training to SAC personnel for the CEMS and COMs.

Attachment 1 provides examples of SAC training records for Environmental Systems, CEMS, Clinker Cooler Process, Tube Ball Mill Process, and ISO 14001.

Operator Logs

Operator logs to determine historical operating practices related to process equipment and emission controls were reviewed. Specifically, daily production logs were reviewed in the Control Room and each Plant Operator has their own personal log book associated with personal notes needed for daily changes to the production schedule.

Preventative Maintenance Schedule for Process and Control Equipment

An interview with Mr. Jerry Powell, Plant Maintenance Supervisor, indicated that each area of the Plant, including all process and control equipment, is scheduled for preventative maintenance. For example, The Finish Mill was down for preventative maintenance during the time of this audit. A daily plant walk through by maintenance and environmental personnel is conducted to identify any areas which may be in need of maintenance.

Actual Repair History and Maintenance Records

Maintenance records for the air pollution control equipment were reviewed and found to be complete and current per the requirements stipulated in the "*Baghouse Operation and Maintenance Plan*" (Plan) dated July 18, 2002. The Plan requires that a weekly, monthly and annual inspection of the air pollution control equipment be conducted and the inspections documented using the electronically maintenance and record system Maximo.

Attachment 2 provides an example of an uncompleted weekly Baghouse Inspection Form and an example of a completed weekly Baghouse Inspection Form. Attachment 3 provides an example of an uncompleted monthly Baghouse Inspection Form. Attachment 4 provides an example of a completed Work Order Status summarizing work completed for the Main Baghouse for the period June 1, 2003 through December 31, 2003.

Actual Operation and Maintenance Records of the Process Monitors and Continuous Monitoring Systems (CMS)

Attachment 5 presents the Last Calibration Report for the CMS operated at the Plant. Each CEM and COM undergoes a daily diagnostic electronic zero and span check. If after the auto calibration has occurred, any instrument is still found to be out of specification, it is electronically alarmed and recorded to the Control Room.

Maintenance is then conducted on the instrument if shown to be out of specification. Attachment 5 presents a record of these electronic CMS checks.

Personnel Responsible for Equipment Maintenance and Repair and Training Programs

Interviews were conducted with Mr. Fernando Vasconcelos, Plant Mechanical Maintenance Manager, and Mr. Jerry Powell Plant, Maintenance Supervisor. Training to SAC personnel has and continues to be conducted by outside vendors including Polysius, BHA, and Sick Mahak. Personnel from Polysius were present at the time of the audit. The parent company of SAC, VC provides operator training and ISO 9001.14001 training. VC representatives were onsite during the audit but not available at the time of the audit.

Records of Raw Material Inputs

Records of raw materials were reviewed and were limited to those raw materials which have an existing permit limit. These raw materials included limestone, kiln feed, and clinker. The crusher has an existing permit throughput limit of 139, 917 tons per month of limestone material for cement production. Limestone monthly throughput records from CY 2003 were reviewed and were found to be in compliance with the monthly throughput limit. Kiln feed is limited by permit to 178 tons per hour and 1, 427,880 tons per year. In reviewing of records a maximum hourly rate of 130 tons per hour was recorded on January 21 2004 at 1400 hours and shown to be compliant with the hourly limit. The Plant has not been in operation long enough to measure compliance with the annual kiln feed limit which requires a 12 month period. Clinker production limits as defined by permit are 105 tons per hour and 839,500 tons per year. A maximum hourly rate of 102.5 tons per hour was observed on January 14, 2004 at 1600 hours. The Plant has not been in operation long enough to measure compliance with the annual clinker limit which again requires a 12 month period.

Plant Procedures Related to Pollution Prevention and Emission Control

The ISO 14001 system which is scheduled for certification in March/April 2004 has a written procedure for identifying aspects and impacts related to the control of emissions. Pollution prevention projects either being planned by SAC or currently being implemented associated with the ISO 14001 system include the following:

- Reduce by 10 percent the total solid waste being sent to the landfill. This will include a major recycling effort by plant personnel.

- Reduce electric consumption by 0.5 percent for a natural resource and energy conservation program.
- Reduce use of lubricants by 10 percent annually.

Another pollution prevention project found to be implemented at the Plant included the addition of hydrated lime to the kiln feed resulting in a reduction of kiln SO₂ emissions.

Good Housekeeping and Other Issues

Good Housekeeping Issues

Two good housekeeping issues were observed during the audit. Improvement in these areas will result in better environmental performance of the Plant. Overall, the Plant was found to be in excellent condition and can be characterized as orderly and neat with good housekeeping practices being implemented.

- *Gypsum Bucket Elevator/Conveying System*

Operation of the gypsum bucket elevator/conveying system produces a build-up of a small amount of gypsum being spilled onto the ground. Due to the high moisture content of gypsum, no fugitive air emissions were observed from the spilled gypsum, even though winds at the ground level were from the southwest at approximately 20 mph with gust to near 30 mph in advance of a polar cold front. A small front-end loader was observed cleaning up the spilled gypsum during the audit. Corrective action is recommended.

- *Clinker Bucket Elevator/Conveying System*

Clinker dust bucket elevator/conveying system results in a build-up of a small amount of clinker being spilled onto the ground and on top of the clinker silo with the majority of the build-up being within the enclosure of the silo itself. No fugitive air emissions were observed from the spilled clinker, since most of the spilled material was inside the enclosure. Corrective action is recommended.

Other Issues

- *Kiln Inlet Burner*

A kiln inlet burner normally located at the bottom of the Precalciner is not being used to control NO_x emissions at the SAC Plant. The Plant does not have the kiln inlet burner installed at this location. However, the same degree of NO_x emissions were being achieved during the audit using a staged air approach instead of staged fuel approach. By starving the air of oxygen at the bottom of the Precalciner (where the kiln burner is normally located), and introducing secondary air (containing oxygen) at a higher point in the Precalciner system, the same level of NO_x emission was being achieved during the audit using this staged air approach. No corrective action is recommended.

- *Coal Mill Stack*

The coal mill stack which exits to the atmosphere at a significant flow rate is oriented in a horizontal direction at an above ground height estimated at 15 feet. It is recommended that this stack be reoriented so it exits to the atmosphere vertically. This will produce two environmental benefits:

1. It will reduce ground-level noise impacts
2. It will improve the ground-level air quality impact from this point source because of improved air quality dispersion due to the now realized vertical momentum component and realize greater plume rise.

Corrective action is recommended.

- *COMs on Finish Mill*

SAC is installing two COMs to measure opacity at the Finish Mill Main and Separator stacks. COMs installed on finish mills are not commonplace throughout the cement industry. Opacity compliance for finish mills, as required by the PC MACT (40 CFR 63 Subpart LLL), require a 6-minute Method 22, followed up by another 6-minute Method 22 within 24 hours if a visible emission is detected by the first 6-minute Method 22, followed by an immediate 30-minute Method 9 if a visible emission is detected from the follow-up Method 22 test. No corrective action is recommended.

4.0 CONCLUSIONS

As shown by Tables 3 and 4, the Plant is found to be compliant with the requirements stipulated in Item 31, Additional Requirements, of Florida DEP Final Permit Number 1210465-001-AC and also successfully fulfills the audit guidelines of the Florida DEP. However, the SAC Plant can improve upon environmental performance by implementing corrective actions outlined in applicable sections of good housekeeping and other issues.

**TABLE 1
PLANT PROCESS AREAS INSPECTED**

EQUIPMENT INSPECTED	DATE INSPECTED	EMISSION UNIT NO.
PRIMARY CRUSHER & BELT CONVEYORS	January 26, 2004	1
RAW MATERIAL PROCESSING - BAGHOUSES FOR TRANSFER POINTS	January 26, 2004	2 ^a
RAW MATERIAL PROCESSING - UNENCLOSED CONVEYOR TRANSFER POINTS	January 26, 2004	3
IN-LINE KILN/RAW MILL - MAIN STACK CONTROLLED BY A BAGHOUSE	January 26, 2004	4
CLINKER COOLER CONTROLLED BY AN ESP	January 26, 2004	5
CLINKER AND CEMENT PROCESSING - BAGHOUSES FOR TRANSFER POINTS	January 26, 2004	6 ^b
CLINKER AND CEMENT PROCESSING - UNENCLOSED CONVEYOR TRANSFER POINTS	January 26, 2004	7
COAL MILL AND COAL CONVEYING EQUIPMENT	January 26, 2004	8 ^c
UNENCLOSED COAL CONVEYING EQUIPMENT	January 26, 2004	9
NATURAL GAS FIRED EMERGENCY GENERATOR SET	January 26, 2004	10

NOTES:

a Includes emission points E-28, G-07, and H-08

b Includes emission points L-03, L-06, M-08, N-09, N-12, N-91, Q-14, Q-17, Q-25, Q-26, and R-12

c Includes emission points S-17 and S-21

TABLE 2
PLANT AIR POLLUTION CONTROL EQUIPMENT INSPECTED

EMISSION CONTROL UNIT	NUMBER	EQUIPMENT NUMBER
KILN/RAW MILL (8 COMPARTMENTS)	1	E21-01
FINISH MILL, SEPOL NO. 1 (W)	2	N09-01
FINISH MILL NO. 2 (E)	3	N12-01
FINISH MILL BAGHOUSE NO. 3 (E)	4	N91-01
FRINGE CEMENT SILO	5	N36-01
AEROPOL @ HOMOGENIZING SILO	6	E28-01
OFF SPEC. FEED HANDLING	7	E34-01
HOMOGENIZING SILO INLET	8	G07-01
POLDOS BLEND SILO OUTLET	9	H08-01
COAL MILL NO. 1, EAST	10	S17-01
COAL MILL NO. 2, WEST	11	S17-01
COAL MILL NO. 3, SOUTH	12	S21-01
CLINKER COOLER CONV./BREAKER	13	L03-01
CLINKER SILO, INLET	14	L06-01
GYP/OS CLINKER TRANSPORT	15	L25-01
CLINKER CONVEYOR (SOUTH)	16	M08-01
CLINKER SILO, (NORTH)	17	M09-01
CEMENT TRANSPORT CONVEYOR	18	P03-01
CEMENT SILO INPUT	19	P11-01
TRUCK LOAD-OUT NO. 1 (E)	20	Q14-01
TRUCK LOAD-OUT NO. 2 (W)	21	Q17-01
RAIL CAR LOAD-OUT	22	Q24-01
CLINKER COOLER ESP	23	K-15

**TABLE 3
PLANT PROCESS AREA INSPECTION RESULTS**

EQUIPMENT INSPECTED	DATE INSPECTED	EMISSION UNIT NO.	PHYSICAL CONDITION	OPERATIONAL CONDITION
PRIMARY CRUSHER & BELT CONVEYORS	January 26, 2004	1	EXCELLENT	NORMAL
RAW MATERIAL PROCESSING - BAGHOUSES FOR TRANSFER POINTS	January 26, 2004	2 ^a	EXCELLENT	NORMAL
RAW MATERIAL PROCESSING - UNENCLOSED CONVEYOR TRANSFER POINTS	January 26, 2004	3	EXCELLENT	NORMAL
IN-LINE KILN/RAW MILL - MAIN STACK CONTROLLED BY A BAGHOUSE	January 26, 2004	4	EXCELLENT	NORMAL
CLINKER COOLER CONTROLLED BY AN ESP	January 26, 2004	5	EXCELLENT	NORMAL
CLINKER AND CEMENT PROCESSING - BAGHOUSES FOR TRANSFER POINTS	January 26, 2004	6 ^{b,d}	EXCELLENT ^d	NORMAL ^d
CLINKER AND CEMENT PROCESSING - UNENCLOSED CONVEYOR TRANSFER POINTS	January 26, 2004	7	EXCELLENT	NORMAL
COAL MILL AND COAL CONVEYING EQUIPMENT	January 26, 2004	8 ^c	EXCELLENT	NORMAL
UNENCLOSED COAL CONVEYING EQUIPMENT	January 26, 2004	9	EXCELLENT	NORMAL
NATURAL GAS FIRED EMERGENCY GENERATOR SET	January 26, 2004	10	EXCELLENT	NORMAL

NOTES:

- a Includes emission points E-28, G-07, and H-08
- b Includes emission points L-03, L-06, M-08, N-09, N-12, N-91, Q-14, Q-17, Q-25, Q-26, and R-12
- c Includes emission points S-17 and S-21
- d N-09, N-12, N-91, N-36, M-08, M-09, and P-03 were down for routine maintenance

**TABLE 4
RESULTS OF PLANT AIR POLLUTION CONTROL EQUIPMENT
AND MAINTENANCE RECORDS INSPECTION**

EMISSION CONTROL UNIT	NUMBER	EQUIPMENT NUMBER	PHYSICAL CONDITION	OPERATIONAL CONDITION	MAINTENANCE RECORDS
KILN/RAW MILL (8 COMPARTMENTS)	1	E21-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
FINISH MILL, SEPOL NO. 1 (W)	2	N09-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
FINISH MILL NO. 2 (E)	3	N12-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
FINISH MILL BAGHOUSE NO. 3 (E)	4	N91-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
FRINGE CEMENT SILO	5	N36-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
AEROPOL @ HOMOGENIZING SILO	6	E28-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
OFF SPEC. FEED HANDLING	7	E34-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
HOMOGENIZING SILO INLET	8	G07-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
POLDOS BLEND SILO OUTLET	9	H08-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
COAL MILL NO. 1, EAST	10	S17-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
COAL MILL NO. 2, WEST	11	S17-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
COAL MILL NO. 3, SOUTH	12	S21-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
CLINKER COOLER CONV./BREAKER	13	L03-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
CLINKER SILO, INLET	14	L06-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
GYP/OS CLINKER TRANSPORT	15	L25-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
CLINKER CONVEYOR (SOUTH)	16	M08-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
CLINKER SILO, (NORTH)	17	M09-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
CEMENT TRANSPORT CONVEYOR	18	P03-01	EXCELLENT	DOWN FOR MAINTENANCE	COMPLETE AND CURRENT
CEMENT SILO INPUT	19	P11-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
TRUCK LOAD-OUT NO. 1 (E)	20	Q14-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
TRUCK LOAD-OUT NO. 2 (W)	21	Q17-01	EXCELLENT	NORMAL	COMPLETE AND CURRENT
RAIL CAR LOAD-OUT	22	Q24-01	N/A	NOT OPERATIONAL	N/A
CLINKER COOLER ESP	23	K-15	EXCELLENT	NORMAL	COMPLETE AND CURRENT

Attachment 1



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007
 Description: JP - WEEKLY BAGHOUSE INSPECTION
 Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

8-96-05 KNIFE GATE SEAR LEAKING

Seq# / Sub WO Equipment / Parent / Where is it / Job Plan Steps Assessment Comments

5 0023497 Equip.: BRN-E19-01 - MAIN BAG HOUSE *8:15 AM* **(1)**
 Parent: *DUST ON E19-02-18 SAEW CONVEYOR ON TAIL SEAR*
 Where: *AND HOPPER 2 PUFFERS*

** NOTE ON BACK*

5	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
10	DELTA P (H2O) - <i>2.9 inlet - 8.5 out</i>	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
20	AIR HEADER PSI	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
30	EMMISSION POINT VE <i>OK</i>	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
40	ACCESS DORRS/or COVERS	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
50	POPPET/SOLENOID VALVES <i>NOTE ON BACK</i>	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
60	HOPPER/MATERIAL DISCHARGE	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
70	LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
80	FOLLOW UP WITH SUPERVISOR <i>EXPANSION JOINT BELOW E-19-02-04</i>	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done

10 0023475 Equip.: BRN-E21-01 - EXHAUST GAS STACK
 Parent: BRN-E20-01
 Where:

5. VERIFY OPERATION OF THE FOLLOWING ITEMS

10	DELTA P (H2O)	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
20	AIR HEADER PSI	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
30	EMMISSION POINT VE	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
40	ACCESS DORRS/or COVERS	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
50	POPPET/SOLENOID VALVES	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
60	HOPPER/MATERIAL DISCHARGE	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
70	LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
80	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done

NOTHING

Delete

20 0023476 Equip.: BRN-N09-01 - BAG HOUSE *2:35 pm*
 Parent:
 Where:

5 VERIFY OPERATION OF THE FOLLOWING ITEMS

10	DELTA P (H2O) <i>EASTSIDE 4.5 WESTSIDE 4.7 on 7.6BT</i>	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
20	AIR HEADER PSI <i>EAST 75-80 WEST 80 PSI</i>	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
30	EMMISSION POINT VE <i>10% PER CONTROL ROOM</i>	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
40	ACCESS DORRS/or COVERS	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
50	POPPET/SOLENOID VALVES	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
60	HOPPER/MATERIAL DISCHARGE	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
70	LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
80	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done

*2:10 - 2:20 TIPPING JAW ON NOT
 TOO BUT WEIGHTS BACK ON TIPPING THEY WORK*



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007
 Description: JP - WEEKLY BAGHOUSE INSPECTION
 Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

2:30 PM

30 0023477 Equip.: BRN-N12-01 - BAG HOUSE
 Parent: *NG1*
 Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) *2 on MAG. GANGE.* Normal Abnormal Not Done
- 20 AIR HEADER PSI *110 PSI* Normal Abnormal Not Done
- 30 EMISSION POINT VE *20054600* Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES *ONE CYCLOID P. BWD (DISCONNECTED)* Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE *10 AS SEPARATE* Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

35 0023498 Equip.: BRN-N20-01 - BAG HOUSE
 Parent:
 Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) *NOT DONE* Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

40 0023478 Equip.: BRN-N91-01 - BAG HOUSE
 Parent:
 Where:

2:41 PM

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) *1.5 & 2 H2O 100 on STAIR* Normal Abnormal Not Done
- 20 AIR HEADER PSI *90 PSI* Normal Abnormal Not Done
- 30 EMISSION POINT VE *20054600* Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES *ONE CYCLOID P. BWD (DISCONNECTED)* Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE *10 SEPARATE HEADERS* Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

NOTED! BRACKETS TO KEEP UNITS ON



WORK ORDER - INSPECTION ROUTE



0000023474

? WHO HAS DONE MAINT ON ELEVATOR LATELY

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

2:23 pm

50 0023479 Equip.: BRN-N36-01 - BAG HOUSE
Parent: BRN-N30-01
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O) *.3 % ON MFG. GAUGE*
- 20 AIR HEADER PSI *90 PSI*
- 30 EMISSION POINT VE
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES
- 60 HOPPER/MATERIAL DISCHARGE
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
- 80 FOLLOW UP WITH SUPERVISOR

<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done

60 0023480 Equip.: BRN-E28-01 - BAG HOUSE
Parent:
Where: *Balcony of Raw Mill*

8:42 Am - 9:00 -

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O) *1-2 MFG GAUGE*
- 20 AIR HEADER PSI *120 PSI*
- 30 EMISSION POINT VE *OIL PER CONTROL ROOM*
- 40 ACCESS DORRS/or COVERS *(REWORK ON METAL @ BOTTOM)*
- 50 POPPET/SOLENOID VALVES *MISSSES EVERY ONE IN A WHILE*
- 60 HOPPER/MATERIAL DISCHARGE *TOP NEED TO BE CLEANED*
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
- 80 FOLLOW UP WITH SUPERVISOR

<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input checked="" type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input checked="" type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input checked="" type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done

9

70 0023481 Equip.: BRN-E34-01 - BAG HOUSE
Parent:
Where: *IT IS OFF.*

9:39 Am

4A

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O)
- 20 AIR HEADER PSI *120 PSI*
- 30 EMISSION POINT VE
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES
- 60 HOPPER/MATERIAL DISCHARGE
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
- 80 FOLLOW UP WITH SUPERVISOR

<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input checked="" type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input checked="" type="checkbox"/>	Not Done
<input type="checkbox"/>	Normal	<input type="checkbox"/>	Abnormal	<input type="checkbox"/>	Not Done



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007
 Description: JP - WEEKLY BAGHOUSE INSPECTION
 Target Start Date: 12/4/2003 12:00:00AM

9:15 WO#: 0000023474 (3)

80 0023482 Equip.: BRN-G07-01 - BAG HOUSE
 Parent:
 Where: TOP OF PRE-HEATER

* G07 M2 ROTARY AIRLOCK
 LEAKING OIL IN SECT OF
 GEAR BOX

- | | | | | | | | |
|----|---|-------------------------------------|--------|-------------------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) 2.5 | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI 122 PSI | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE IT IS DUSTING (VERY LITTLE) | <input checked="" type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

90 0023483 Equip.: BRN-H08-01 - BAG HOUSE
 Parent:
 Where: RIGHT NEXT TO E-34-01 ABOVE POLDAS.

9:39 AM (4)

- | | | | | | | | |
|----|---|-------------------------------------|--------|-------------------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) 1 on MAG GAUGE | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI 120 PSI | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES #3 & #4 MISS OCCASIONALLY | <input checked="" type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

100 0023484 Equip.: BRN-S17-01-01 - COAL MILL BAG HOUSES - EAST
 Parent: BRN-S17-01
 Where:

10:08 AM (5) (6)

- | | | | | | | | |
|----|---|-------------------------------------|--------|-------------------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) 2 on MAG. GAUGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI 118 PSI | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE DUSTING SOME * | <input type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES OK - PIPE LOOSE INSIDE BREWERS SEVERAL | <input checked="" type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input checked="" type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

10:08 AM

6

110 0023485 Equip.: BRN-S17-01-02 - COAL MILL BAG HOUSES - WEST
Parent: BRN-S17-01
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O)
- 20 AIR HEADER PSI
- 30 EMISSION POINT VE
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES
- 60 HOPPER/MATERIAL DISCHARGE
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
- 80 FOLLOW UP WITH SUPERVISOR

- | | | | | | |
|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

120 0023486 Equip.: BRN-S21-01 - BAG HOUSE
Parent:
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O) *2 ON MAG GAUGES*
- 20 AIR HEADER PSI *110 PSI*
- 30 EMISSION POINT VE *DUSTING BUT WHICH ONE*
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES *OK*
- 60 HOPPER/MATERIAL DISCHARGE
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD *THINK PIPE IS LOOSE IN BAG HOUSE INSIDE*
- 80 FOLLOW UP WITH SUPERVISOR

- * THIS ONE IS RUNNING BUT HAS A CLOSED INLET VALVE.*
- | | | | | | |
|-------------------------------------|--------|-------------------------------------|----------|--------------------------|----------|
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input checked="" type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

130 0023487 Equip.: BRN-L03-01 - BAG HOUSE
Parent:
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O) *1.5 - 2 MAG GAUGES*
- 20 AIR HEADER PSI *120*
- 30 EMISSION POINT VE
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES
- 60 HOPPER/MATERIAL DISCHARGE
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
- 80 FOLLOW UP WITH SUPERVISOR

- 9:50 AM*
- ACT LIKE IT HAS TWO DIFFERENT FIRING ORDER & 2ND FIRE ALL DIRT FIRE.*
- | | | | | | |
|-------------------------------------|--------|--------------------------|----------|--------------------------|----------|
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input checked="" type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007
 Description: JP - WEEKLY BAGHOUSE INSPECTION
 Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

10:22 Am

(7)

- 140 0023488 Equip.: BRN-L06-01 - BAG HOUSE *TYPE CHECK STACK FOR DUST*
 Parent:
 Where:
- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
 - 10 DELTA P (H2O) *1.75-2 ON MAG*
 - 20 AIR HEADER PSI *120 PSF*
 - 30 EMISSION POINT VE *OK*
 - 40 ACCESS DORRS/or COVERS
 - 50 POPPET/SOLENOID VALVES *APPEAR OK.*
 - 60 HOPPER/MATERIAL DISCHARGE
 - 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
 - 80 FOLLOW UP WITH SUPERVISOR

<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done

150 0023489 Equip.: BRN-L25-01 - BAG HOUSE
 Parent:
 Where:

10:30 Am *CALL CONTRACT TO STA. FOR ME.*

(7)

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O) *2% & RISING*
- 20 AIR HEADER PSI *120*
- 30 EMISSION POINT VE
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES
- 60 HOPPER/MATERIAL DISCHARGE *IT STOPPED UP 1/2 FULL OF MATERIAL*
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD *IT'S TO BOTTOM OF CONE*
- 80 FOLLOW UP WITH SUPERVISOR

<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done

160 0023490 Equip.: BRN-M08-01 - BAG HOUSEMM
 Parent:
 Where:

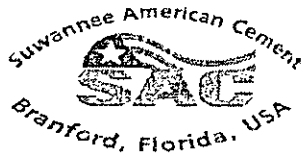
10:58 Am

(10)

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
- 10 DELTA P (H2O) *4.1 ON MAG GANGE*
- 20 AIR HEADER PSI *65 PSI*
- 30 EMISSION POINT VE
- 40 ACCESS DORRS/or COVERS
- 50 POPPET/SOLENOID VALVES
- 60 HOPPER/MATERIAL DISCHARGE
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD *TOP TIPPING VALVE TIGHT OPEN & CLOSED*
- 80 FOLLOW UP WITH SUPERVISOR *IT'S NOT AN AIR LOCK AS IT IS NOW*

<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done
<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	<input type="checkbox"/> Not Done

* FM HP PUMP (FILTER CLOGGED) 11:10am - 11:45 am
 * S40 Coal mill FINE COMPRESSION sys. 11:45 - 12:00 - 12:36 - 1:23



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

10:47 AM HAD TO GET CENTRAL RECORDS TO SINGLE STI

170 0023491 Equip.: BRN-M09-01 - BAG HOUSE
Parent:
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
10 DELTA P (H2O) 6.4 ON MAG. GAUGE
20 AIR HEADER PSI 120 PSI
30 EMISSION POINT VE
40 ACCESS DORRS/or COVERS
50 POPPET/SOLENOID VALVES OK (30 SECONDS BETWEEN FIRE)
60 HOPPER/MATERIAL DISCHARGE AVERAGE 10-15 SEC.
70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
80 FOLLOW UP WITH SUPERVISOR

Grid of checkboxes for Normal, Abnormal, Not Done status for items 5-80.

Handwritten circled number 9

180 0023492 Equip.: BRN-P03-01 - BAG HOUSE
Parent: BRN-P02-01
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
10 DELTA P (H2O) 13.3 ON MAG. GAUGE
20 AIR HEADER PSI 65 PSI
30 EMISSION POINT VE
40 ACCESS DORRS/or COVERS
50 POPPET/SOLENOID VALVES
60 HOPPER/MATERIAL DISCHARGE
70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
80 FOLLOW UP WITH SUPERVISOR

Grid of checkboxes for Normal, Abnormal, Not Done status for items 5-80.

190 0023493 Equip.: BRN-P11-01 - BAG HOUSE
Parent:
Where:

3:00 PM

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
10 DELTA P (H2O) 2.5-3 ON MAG.
20 AIR HEADER PSI 80 PSI
30 EMISSION POINT VE
40 ACCESS DORRS/or COVERS
50 POPPET/SOLENOID VALVES
60 HOPPER/MATERIAL DISCHARGE
70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD HAS SHAVE BEEN REPLACED
80 FOLLOW UP WITH SUPERVISOR

Grid of checkboxes for Normal, Abnormal, Not Done status for items 5-80.

#1 SWITCH LIGHT IS BLOWN IN ELEVATOR

NO KEYS TO OPEN HATCH FOR MAINT.



WORK ORDER - INSPECTION ROUTE



0000023474

Route: MM-MPR-I-0007

WO#: 0000023474

Description: JP - WEEKLY BAGHOUSE INSPECTION

Target Start Date: 12/4/2003 12:00:00AM

1:43 pm

200 0023494 Equip.: BRN-Q14-01 - BAG HOUSE

Parent:

Where: C.S. INSIDE WEST BAGHOUSE

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
10 DELTA P (H2O) 1.4 ON MAG CARTRIDGE
20 AIR HEADER PSI 80 PSI
30 EMISSION POINT VE
40 ACCESS DORRS/or COVERS
50 POPPET/SOLENOID VALVES
60 HOPPER/MATERIAL DISCHARGE
70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
80 FOLLOW UP WITH SUPERVISOR

Grid of checkboxes for status: Normal, Abnormal, Not Done. Includes handwritten checkmarks for items 10, 20, 30, 40, 50, 60, 70.

210 0023495 Equip.: BRN-Q17-01 - BAG HOUSE

Parent:

Where: CEMENT SILO'S INSIDE EAST PM NOT RUNNING 1:30 PM

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
10 DELTA P (H2O) 2 ON MAG CARTRIDGE
20 AIR HEADER PSI 75 PSI
30 EMISSION POINT VE
40 ACCESS DORRS/or COVERS
50 POPPET/SOLENOID VALVES
60 HOPPER/MATERIAL DISCHARGE
70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
80 FOLLOW UP WITH SUPERVISOR

Grid of checkboxes for status: Normal, Abnormal, Not Done. Includes handwritten checkmarks for items 20, 30, 40, 50, 60, 70.

220 0023496 Equip.: BRN-Q24-01 - BAG HOUSE

Parent:

Where: RAIL LOAD OUT * NOT IN OPERATION *

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS
10 DELTA P (H2O)
20 AIR HEADER PSI
30 EMISSION POINT VE
40 ACCESS DORRS/or COVERS
50 POPPET/SOLENOID VALVES
60 HOPPER/MATERIAL DISCHARGE
70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD
80 FOLLOW UP WITH SUPERVISOR

Grid of checkboxes for status: Normal, Abnormal, Not Done. All checkboxes are empty.



**WORK ORDER -
INSPECTION ROUTE**



0000023474

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 12/4/2003 12:00:00AM

WO#: 0000023474

Performed by: _____
LeadCraft: _____
Date: __/__/__

Approved by: _____
Supervisor: OSP
Date: 12/04/03



WORK ORDER - INSPECTION ROUTE



Route: MM-MPR-I-0007
 Description: JP - WEEKLY BAGHOUSE INSPECTION
 Target Start Date: 10/22/2003 12:00:00A

WO#: 0000020433

Seq# / Sub WO	Equipment / Parent / Where is it / Job Plan Steps	Assessment	Comments
5	0020456 Equip.: BRN-E19-01 - MAIN BAG HOUSE Parent: Where:		
5	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
10	DELTA P (H2O)	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	AIR HEADER PSI	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
30	EMMISSION POINT VE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
40	ACCESS DORRS/or COVERS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
50	POPPET/SOLENOID VALVES	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
60	HOPPER/MATERIAL DISCHARGE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
70	LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
80	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
10	0020434 Equip.: BRN-E21-01 - EXHAUST GAS STACK Parent: BRN-E20-01 Where:		
5	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
10	DELTA P (H2O)	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	AIR HEADER PSI	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
30	EMMISSION POINT VE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
40	ACCESS DORRS/or COVERS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
50	POPPET/SOLENOID VALVES	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
60	HOPPER/MATERIAL DISCHARGE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
70	LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
80	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	0020435 Equip.: BRN-N09-01 - BAG HOUSE Parent: Where:		
5	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
10	DELTA P (H2O)	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	AIR HEADER PSI	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
30	EMMISSION POINT VE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
40	ACCESS DORRS/or COVERS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
50	POPPET/SOLENOID VALVES	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
60	HOPPER/MATERIAL DISCHARGE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
70	LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
80	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	



**WORK ORDER -
INSPECTION ROUTE**



000020433

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00A

WO#: 000020433

30 0020436 **Equip.:** BRN-N12-01 - BAG HOUSE
Parent:
Where:

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

35 0020457 **Equip.:** BRN-N20-01 - BAG HOUSE
Parent:
Where: FINISH MILL

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

40 0020437 **Equip.:** BRN-N91-01 - BAG HOUSE
Parent:
Where: FINISH MILL

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done



WORK ORDER - INSPECTION ROUTE



0000020433

Route: MM-MPR-I-0007
 Description: JP - WEEKLY BAGHOUSE INSPECTION
 Target Start Date: 10/22/2003 12:00:00A

WO#: 0000020433

50 0020438 Equip.: BRN-N36-01 - BAG HOUSE
 Parent: BRN-N30-01
 Where:

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

60 0020439 Equip.: BRN-E28-01 - BAG HOUSE
 Parent:
 Where: TOP OF RAW MILL

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

70 0020440 Equip.: BRN-E34-01 - BAG HOUSE
 Parent:
 Where: ABOVE POLDOS

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |



**WORK ORDER -
INSPECTION ROUTE**



0000020433

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00A

WO#: 0000020433

80 0020441 **Equip.:** BRN-G07-01 - BAG HOUSE
Parent:
Where: BLEND SILO

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

90 0020442 **Equip.:** BRN-H08-01 - BAG HOUSE
Parent:
Where: ABOVE POLDOS

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

100 0020443 **Equip.:** BRN-S17-01-01 - COAL MILL BAG HOUSES - EAST
Parent: BRN-S17-01
Where: COAL HOPPERS

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done



**WORK ORDER -
INSPECTION ROUTE**



Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00AI

WO#: 0000020433

110 0020444 **Equip.:** BRN-S17-01-02 - COAL MILL BAG HOUSES - WEST
Parent: BRN-S17-01
Where: COAL HOPPERS

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

120 0020445 **Equip.:** BRN-S21-01 - BAG HOUSE
Parent:
Where: OVER PULVERIZED COAL

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

130 0020446 **Equip.:** BRN-L03-01 - BAG HOUSE
Parent:
Where: BURNER FLOOR

- 5 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 10 DELTA P (H2O) Normal Abnormal Not Done
- 20 AIR HEADER PSI Normal Abnormal Not Done
- 30 EMISSION POINT VE Normal Abnormal Not Done
- 40 ACCESS DORRS/or COVERS Normal Abnormal Not Done
- 50 POPPET/SOLENOID VALVES Normal Abnormal Not Done
- 60 HOPPER/MATERIAL DISCHARGE Normal Abnormal Not Done
- 70 LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 80 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done



WORK ORDER - INSPECTION ROUTE



000020433

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00AM

WO#: 000020433

140 0020447 **Equip.:** BRN-L06-01 - BAG HOUSE
Parent:
Where: CLINKER SILO

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |

150 0020448 **Equip.:** BRN-L25-01 - BAG HOUSE
Parent:
Where: ON TOP OF GYPSUM BINS

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |

160 0020449 **Equip.:** BRN-M08-01 - BAG HOUSEMM
Parent:
Where: BETWEEN CLINKER SILO'S

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |



**WORK ORDER -
INSPECTION ROUTE**



0000020433

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00AI

WO#: 0000020433

170 0020450 **Equip.:** BRN-M09-01 - BAG HOUSE
Parent:
Where: BOTTOM OF GYPSUM BIN

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

180 0020451 **Equip.:** BRN-P03-01 - BAG HOUSE
Parent: BRN-P02-01
Where:

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

190 0020452 **Equip.:** BRN-P11-01 - BAG HOUSE
Parent:
Where: TOP OF CEMENT SILO

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |



**WORK ORDER -
INSPECTION ROUTE**



0000020433

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00AM

WO#: 0000020433

200 0020453 **Equip.:** BRN-Q14-01 - BAG HOUSE
Parent:
Where: AIR SLIDES (4 - 5)

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

210 0020454 **Equip.:** BRN-Q17-01 - BAG HOUSE
Parent:
Where: AIR SLIDES (1-2)

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

220 0020455 **Equip.:** BRN-Q24-01 - BAG HOUSE
Parent:
Where: TRAIN AREA

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 5 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 10 | DELTA P (H2O) | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | AIR HEADER PSI | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | EMMISSION POINT VE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | ACCESS DORRS/or COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | POPPET/SOLENOID VALVES | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | HOPPER/MATERIAL DISCHARGE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | LIST ANY ITEM NOT OPERATING/OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |



**WORK ORDER -
INSPECTION ROUTE**



0000020433

Route: MM-MPR-I-0007
Description: JP - WEEKLY BAGHOUSE INSPECTION
Target Start Date: 10/22/2003 12:00:00A

WO#: 0000020433

Performed by: _____
LeadCraft: _____
Date: __/__/__

Approved by: _____
Supervisor: _____
Date: __/__/__



WORK ORDER - INSPECTION ROUTE



0000020458

Route: MM-MPR-I-0008

WO#: 0000020458

Description: JP - MONTHLY BAGHOUSE INSPECTION

Target Start Date: 10/20/2003 12:00:00A

110 0020469 Equip.: BRN-L06-01 - BAG HOUSE
Parent:
Where: CLINKER SILO

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | DAMPER | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

120 0020470 Equip.: BRN-M08-01 - BAG HOUSEMM
Parent:
Where: BETWEEN CLINKER SILO'S

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | DAMPER | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |

130 0020471 Equip.: BRN-P11-01 - BAG HOUSE
Parent:
Where: TOP OF CEMENT SILO

- | | | | | | | | |
|----|---|--------------------------|--------|--------------------------|----------|--------------------------|----------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 60 | DAMPER | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> | Normal | <input type="checkbox"/> | Abnormal | <input type="checkbox"/> | Not Done |



WORK ORDER - INSPECTION ROUTE



000020458

Route: MM-MPR-I-0008
Description: JP - MONTHLY BAGHOUSE INSPECTION
Target Start Date: 10/20/2003 12:00:00A

WO#: 000020458

140 0020472 **Equip.:** BRN-P03-01 - BAG HOUSE
Parent: BRN-P02-01
Where:

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | DAMPER | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |

150 0020473 **Equip.:** BRN-Q14-01 - BAG HOUSE
Parent:
Where: AIR SLIDES (4 - 5)

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | DAMPER | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |

160 0020474 **Equip.:** BRN-Q17-01 - BAG HOUSE
Parent:
Where: AIR SLIDES (1-2)

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | DAMPER | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |



**WORK ORDER -
INSPECTION ROUTE**



0000020458

Route: MM-MPR-I-0008
Description: JP - MONTHLY BAGHOUSE INSPECTION
Target Start Date: 10/20/2003 12:00:00AI

WO#: 0000020458

170 0020475 **Equip.:** BRN-Q24-01 - BAG HOUSE
Parent:
Where: TRAIN AREA

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | DAMPER | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |

180 0020476 **Equip.:** BRN-Q21-01 - RAIL SIDE LOADING SPOUT
Parent: BRN-Q24-01
Where:

- | | | | | |
|----|---|---------------------------------|-----------------------------------|-----------------------------------|
| 10 | VERIFY OPERATION OF THE FOLLOWING ITEMS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 20 | ROTARY AIR LOCK | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 30 | SCREW CONVEYOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 40 | FLOP GATE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 50 | AIR SLIDE | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 60 | DAMPER | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 70 | CONVEYING DEVICE COVERS | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 80 | NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |
| 90 | FOLLOW UP WITH SUPERVISOR | <input type="checkbox"/> Normal | <input type="checkbox"/> Abnormal | <input type="checkbox"/> Not Done |

Performed by:
LeadCraft: _____
Date: ___/___/___

Approved by:
Supervisor: _____
Date: ___/___/___

Attachment 2



WORK ORDER - INSPECTION ROUTE



Route: MM-MPR-I-0008
 Description: JP - MONTHLY BAGHOUSE INSPECTION
 Target Start Date: 10/20/2003 12:00:00A

WO#: 0000020458

Seq# / Sub WO	Equipment / Parent / Where is it / Job Plan Steps	Assessment	Comments
5	0020478 Equip.: BRN-E19-01 - MAIN BAG HOUSE Parent: Where:		
10	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	ROTARY AIR LOCK	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
30	SCREW CONVEYOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
40	FLOP GATE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
50	AIR SLIDE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
60	DAMPER	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
70	CONVEYING DEVICE COVERS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
80	NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
90	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
10	0020459 Equip.: BRN-N09-01 - BAG HOUSE Parent: Where:		
10	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	ROTARY AIR LOCK	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
30	SCREW CONVEYOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
40	FLOP GATE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
50	AIR SLIDE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
60	DAMPER	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
70	CONVEYING DEVICE COVERS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
80	NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
90	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	0020460 Equip.: BRN-N12-01 - BAG HOUSE Parent: Where:		
10	VERIFY OPERATION OF THE FOLLOWING ITEMS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
20	ROTARY AIR LOCK	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
30	SCREW CONVEYOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
40	FLOP GATE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
50	AIR SLIDE	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
60	DAMPER	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
70	CONVEYING DEVICE COVERS	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
80	NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	
90	FOLLOW UP WITH SUPERVISOR	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done	



**WORK ORDER -
INSPECTION ROUTE**



0000020458

Route: MM-MPR-I-0008
Description: JP - MONTHLY BAGHOUSE INSPECTION
Target Start Date: 10/20/2003 12:00:00AI

WO#: 0000020458

25 0020477 **Equip.: BRN-N20-01 - BAG HOUSE**
Parent:
Where: FINISH MILL

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

30 0020461 **Equip.: BRN-N91-01 - BAG HOUSE**
Parent:
Where: FINISH MILL

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

40 0020462 **Equip.: BRN-E28-01 - BAG HOUSE**
Parent:
Where: TOP OF RAW MILL

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done



**WORK ORDER -
INSPECTION ROUTE**



0000020458

Route: MM-MPR-I-0008

WO#: 0000020458

Description: JP - MONTHLY BAGHOUSE INSPECTION

Target Start Date: 10/20/2003 12:00:00AI

50 0020463 Equip.: BRN-G07-01 - BAG HOUSE
Parent:
Where: BLEND SILO

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

60 0020464 Equip.: BRN-H08-01 - BAG HOUSE
Parent:
Where: ABOVE POLDOS

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

70 0020465 Equip.: BRN-S17-01-01 - COAL MILL BAG HOUSES - EAST
Parent: BRN-S17-01
Where: COAL HOPPERS

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done



**WORK ORDER -
INSPECTION ROUTE**



000020458

Route: MM-MPR-I-0008
Description: JP - MONTHLY BAGHOUSE INSPECTION
Target Start Date: 10/20/2003 12:00:00AM

WO#: 000020458

80 0020466 **Equip.:** BRN-S17-01-02 - COAL MILL BAG HOUSES - WEST
Parent: BRN-S17-01
Where: COAL HOPPERS

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

90 0020467 **Equip.:** BRN-S21-01 - BAG HOUSE
Parent:
Where: OVER PULVERIZED COAL

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

100 0020468 **Equip.:** BRN-L03-01 - BAG HOUSE
Parent:
Where: BURNER FLOOR

- 10 VERIFY OPERATION OF THE FOLLOWING ITEMS Normal Abnormal Not Done
- 20 ROTARY AIR LOCK Normal Abnormal Not Done
- 30 SCREW CONVEYOR Normal Abnormal Not Done
- 40 FLOP GATE Normal Abnormal Not Done
- 50 AIR SLIDE Normal Abnormal Not Done
- 60 DAMPER Normal Abnormal Not Done
- 70 CONVEYING DEVICE COVERS Normal Abnormal Not Done
- 80 NOTE ANY ITEM THAT IS NOT OPERATING OR FUNCTIONING AS IT SHOULD Normal Abnormal Not Done
- 90 FOLLOW UP WITH SUPERVISOR Normal Abnormal Not Done

Attachment 3



Work Order Status By Work Type / Status

From 6/1/2003 To 12/31/2003 (214 Days)

MAXIMO

Work Type(s) Selected: *** ALL ***
 Stature(s) Selected: *** ALL ***
 Crew(s) Selected: MM-MPR,MM-MPD,MM-LUB

WO#	Work Description	Crew	EQ#	Equipment Description	Actual Start	Priority	Target Compl	Status
01-PM								
Priority: 3								
14483	Inspection of baghouse	MM-MPR	BRN-E19-01	MAIN BAG HOUSE	07/29/2003	3	07/31/2003	CLOSE
<u>Failure / Work done:</u>		5/16" nut driven, 3/8" nut drive Cologned dusting powder shop vac extension cord cordless drill motor black light						
02-CO								
Priority: 3								
15558	Install clamps module 07 and 08	MM-MPR	BRN-E19-01	MAIN BAG HOUSE	09/10/2003	3	09/12/2003	CLOSE
<u>Failure / Work done:</u>		Started on Modul #7 double clamping all the bags. Had to loosen some rows to get to all the bags. Stripped the socket and used a screw driver on half of the clamps slowed me way down. after getting them all double clamped had to re-tension the bags that I took loose Jeff/Sammy helped me tension the bags Buddy Hodge Install new double clamps on tension springs/bags module 7 made tension stand for scale						
Priority: 4								
15234	Install cover for probe sensor	MM-MPR	BRN-E19-01	MAIN BAG HOUSE	09/05/2003	4	09/10/2003	CLOSE
<u>Failure / Work done:</u>		4" X 4" X 20" angle fabricated. Isolated module #8, opened access door, allowed to cool down, tested air quality. Entered bag house and installed cover plate over sensor. Closed access door and returned equipment to operations. Repeated the above for module #6. Material required: 1/4 X 4" X 20" plate Tools required: cutting torch, welding machine, 5/16" wrench, speed square, extension cord, drop light, 10' step ladder, 4' step ladder.						
Priority: 5								
13803	Align pullys and check tension	MM-MPD	BRN-E19-01	MAIN BAG HOUSE	07/16/2003	5	07/23/2003	CLOSE

Work Description

Crew

EQ#

Equipment Description

Actual Start

Priority

Target Compl

Status

02:00

Priority: 5

Failure / Work done:

TOOLS:
LASER PULLEY ALIGNMENT
3/8 SOCKET AND RATCHET
1 3/16 SOCKET 3/4 DRIVE AND RATCHET
1 1/8 WRENCH
3/16 ALLEN WRENCH
BELT TENSION GAGE
LOCKED OUT EQUIPMENT. TOOK COVER OFF. CHECKED ALIGNMENT. CHECKED BELT TENSION. TENSION ON BELT WAS 6.
TIGHTENED TO 16. ADJUSTED ALIGNMENT.

Attachment 4



TRAINING ATTENDANCE FORM

COURSE: ENVIRONMENTAL SYSTEM
ENTITY/INSTRUCTOR: JULIO FOLCHADELLA
LOCATION: SAC
DURATION (HOURS): 2,0 DATE: 8/25/03

PROGRAM

Training in Environmental Management system and its procedure to evaluate significance ranking in Environmental aspects.

FULL NAME (PARTICIPANT)	DEPARTMENT	SIGNATURE
01) Adelson P. Nascimento	QC	
02) Walter K. Smith	QC	
03) Brenda Akers	QC	
04) MARK BOZEMAN	QC	
05) David L. Hudson	QC	
06) Jimmy Simmons	QC	
07) JULIO FOLCHADELLA	VOPS	
08)		
09)		
10)		
11)		
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INSTRUCTOR SIGNATURE



TRAINING ATTENDANCE FORM



COURSE: CEMS OMD 41 TRAINING
 ENTITY / INSTRUCTOR: JOEL
 LOCATION: BRANFORD TRAINING ROOM
 DURATION (HOURS): 4 | DATE: 4.8.2002

PROGRAM

FULL NAME (PARTICIPANT)	DEPARTMENT	SIGNATURE
01) RICK SHIELDS	ELECTRIC	[Signature]
02) Chuck Kessler	Environment	[Signature]
03) JOSE ARIOVIALDO	ELECTRIC	[Signature]
04) James Athanasios	Automation Engineer	[Signature]
05) LAMAR PATE	ELECTRIC	[Signature]
06) Steven Cloutier	Keogler & Assoc.	[Signature]
07)		
08)		
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22)		

INSTRUCTOR SIGNATURE



TRAINING ATTENDANCE FORM

COURSE: CEMS GM31 TRAINING
ENTITY / INSTRUCTOR: JOEL
LOCATION: BRANFORD TRAINING ROOM
DURATION (HOURS): 6 DATE: 4-7-2003

PROGRAM

FULL NAME (PARTICIPANT)	DEPARTMENT	SIGNATURE
01) RICK SHIELDS	ELECTRIC	[Signature]
02) Chuck Kessler	Environment	[Signature]
03) JOSE ARIOVALDO	ELECTRIC	[Signature]
04) LAMAR PATE	ELECTRICDL	[Signature]
05) James Athanasios	Automation Engineer	[Signature]
06)		
07)		
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22)		

INSTRUCTOR SIGNATURE



TRAINING ATTENDANCE FORM

COURSE: Cooling of Clinker - Process Training
 ENTITY / INSTRUCTOR: Ricardo Telles
 LOCATION: Training Room
 DURATION (HOURS): 3 h DATE: July 28 - 2003

PROGRAM

- Different kinds of coolers
- Aspects of cooling / cooling process.
- Cooler operation

FULL NAME (PARTICIPANT)	DEPARTMENT	SIGNATURE
01) Alessandro Storck Figueira	VEPS	<i>Alessandro</i>
02) Dustin HAGAN	Prod.	<i>Dustin Hagan</i>
03) Dale T. HoDag	Control Room	<i>Dale T. HoDag</i>
04) Jason Hunt	Prod.	<i>Jason Hunt</i>
05) MERCY ELLISON	Prod.	<i>Mercy Ellison</i>
06) Matt Frierson	Prod.	<i>Matt Frierson</i>
07) Brad Anderson	Prod.	<i>Brad Anderson</i>
08) Mark Allen	Prod.	<i>Mark Allen</i>
09) Matt Davis	Prod.	<i>Matt Davis</i>
10) CHRIS YAGEL	PROD.	<i>Chris Yagel</i>
11) William Knight JR	Prod.	<i>Will Knight</i>
12) Carmelo E. GONZALEZ	Control Room	<i>Carmelo E. Gonzalez</i>
13) Todd T. Sterpucl	Prod.	<i>Todd T. Sterpucl</i>
14) Billy Edmonds	Prod.	<i>Billy Edmonds</i>
15) James McCreelan	Prod.	<i>James McCreelan</i>
16) John R. Brown	Prod.	<i>John R. Brown</i>
17) SEAN T. DAWY	CRO	<i>Sean T. Dawy</i>
18) KURT HARGARTER	CRO	<i>Kurt Hargarter</i>
19) Andy Walker	CRO	<i>Andy Walker</i>
20)		
21)		
22)		

[Signature]
 INSTRUCTOR SIGNATURE



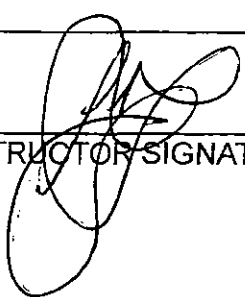
TRAINING ATTENDANCE FORM

COURSE: Tube ball mill - Process Training
 ENTITY / INSTRUCTOR: Ricardo Telles
 LOCATION: Training Room
 DURATION (HOURS): 3.0h DATE: July, 30-2003

PROGRAM

- Lining
- Diaphragm
- Balls

FULL NAME (PARTICIPANT)	DEPARTMENT	SIGNATURE
01) Alessandro Storck Figueira	VEPS	<i>Alessandro</i>
02) Carmelo E. Gonzalez	Control Room	<i>Carmelo E. Gonzalez</i>
03) CURIS YAGEL	PRODUCTIONS	<i>Curis Yagel</i>
04) Matt Davis	Production	<i>Matt Davis</i>
05) Mark Allen	Production	<i>Mark Allen</i>
06) Matt Frierson	prod.	<i>Matt Frierson</i>
07) Macey Ellison	Prod	<i>Macey Ellison</i>
08) Jason Hunt	Prod.	<i>Jason Hunt</i>
09) Dale Hodzo	Prod.	<i>Dale Hodzo</i>
10) Dustin Hagan	Prod.	<i>Dustin Hagan</i>
11) Andy Walker	Prod.	<i>Andy Walker</i>
12) KURT HARGARTEN	PROD.	<i>Kurt Hargarten</i>
13) SEAN T. DARCY	CRO	<i>Sean T. Darcy</i>
14) John R. Brown	Prod.	<i>John R. Brown</i>
15)		
16)		
17)		
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22)		

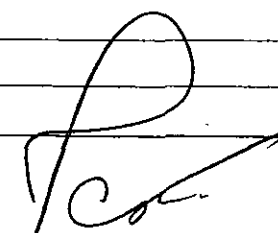


 INSTRUCTOR SIGNATURE



TRAINING ATTENDANCE FORM

COURSE: VCPS		
ENTITY / INSTRUCTOR: MAINTENANCE - Training ROOM		
LOCATION:		
DURATION (HOURS): 1 hr.		DATE: 9/30/03
<u>PROGRAM</u>		
- ENVIRONMENTAL ASPECTS AND IMPACTS.		
FULL NAME (PARTICIPANT)	DEPARTMENT	SIGNATURE
01) CRAIG BALLAFIORA		<i>Craig Ballafiora</i>
02) Mera Brooks	maint	<i>Mera Brooks</i>
03) Angelanna	maint	<i>Angelanna</i>
04) Jason Schroeder	maint	<i>Jason Schroeder</i>
05) ROBBY SHAFFER	MAINT	<i>Robby Shaffer</i>
06) Johnny Bessen Gonçalves	Mzin	<i>Johnny Bessen Gonçalves</i>
07) Jeff Rybicki	MAINT	<i>Jeff Rybicki</i>
08) Buddy Hodge	Maint	<i>Buddy Hodge</i>
09) NEIL HOUGH	MAINT	<i>Neil Hough</i>
10) Deborah Dean	Maint	<i>Deborah Dean</i>
11) Kenneth Crue	Maint	<i>Kenneth Crue</i>
12) Robert M. Kirby JR.	Mech. MAINT	<i>Robert M. Kirby JR.</i>
13) Chuck Stewart	MAINT	<i>Chuck Stewart</i>
14) Paul Corbin	Maint.	<i>Paul Corbin</i>
15) Deanne Bridges	MM-LUR	<i>Deanne Bridges</i>
16) BRUCE Coleman	M.M.	<i>Bruce Coleman</i>
17) Samuel Adam	MM	<i>Samuel Adam</i>
18) Jason Hunt	M.M.	<i>Jason Hunt</i>
19) Fernando Antonio Moraes Vasconcelos	M.M.	<i>Fernando Antonio Moraes Vasconcelos</i>
20) JERRY POWELL	M.M.	<i>Jerry Powell</i>
21)		
22)		



 INSTRUCTOR SIGNATURE

Attachment 5

Last Calibration Report

Time	Device	Pollutant	Units		Range	Expected	Actual	Alarm			Limit (%)	Alarm	OOC
						Value	Value	Difference	Drift (%)	Drift			
01/26/2004 07:08:08 AM	EuroFid	THC	ppm	Zero	0	0.00	-0.30	-0.300	-0.30	Zero	2	No	Pass
				Span	100	32.60	32.42	-0.180	-0.18	Span	2.5	No	Pass
01/26/2004 07:33:08 AM	Flowsic	Flow	cfm x 10	Zero	0	0.0	0.0	0.000	0.00	Zero	2	No	Pass
				Span	300	210.0	210.0	0.000	0.00	Span	2.5	No	Pass
01/26/2004 07:32:45 AM	GM31_K	SO2_K	ppm	Zero	0	0.0	0.0	0.000	0.00	Zero	2	No	Pass
				Span	150	105.0	104.7	-0.300	-0.20	Span	2.5	No	Pass
01/26/2004 07:32:45 AM	GM31_K	NO2_K	ppm	Zero	0	0.0	0.0	0.000	0.00	Zero	2	No	Pass
				Span	300	210.0	209.4	-0.600	-0.20	Span	2.5	No	Pass
01/26/2004 07:32:45 AM	GM31_K	NO_K	ppm	Zero	0	0	0	0.000	0.00	Zero	2	No	Pass
				Span	1500	1050	1047	-3.000	-0.20	Span	2.5	No	Pass
01/26/2004 10:24:08 AM	LT1_K	O2_K	%	Zero	0	0.00	0.00	0.000	0.00	Zero	2	No	Pass
				Span	25	19.50	19.30	-0.200	-0.80	Span	2	No	Pass
01/26/2004 07:32:38 AM	OMD41_C	Opacity_C	%	Zero	0	0.00	0.10	0.100	0.10	Zero	2	No	Pass
				Span	100	91.00	91.10	0.100	0.10	Span	2	No	Pass
01/26/2004 07:32:38 AM	OMD41_C	Cont_C	%			0.00							
01/26/2004 07:32:53 AM	OMD41_K	Opacity_K	%	Zero	0	0.00	0.00	0.000	0.00	Zero	2	No	Pass
				Span	100	65.00	65.40	0.400	0.40	Span	2	No	Pass
01/26/2004 07:32:53 AM	OMD41_K	Cont_K	%			0.00							