OAK GROVE PLANT

MAINTENANCE SECTION-MECHANICAL

UNIT 1 PULVERIZER SYSTEM
SEMI-ANNUAL INSPECTION

PROCEDURE NO. OG-MSM-2209

REVISION NO. 0

EFFECTIVE DATE: _____

PREPARED BY (Print): TOM PERSON 8/31/2010 EXT: 6395

TECHNICAL REVIEW BY (Print): _____ EXT: _____

APPROVED BY: _____ DATE: _____

1.0 PURPOSE AND SCOPE

The purpose of this procedure is to inspect the Unit 1 Pulverizer, Babcock & Wilcox, Model HP.

2.0 ACCEPTANCE CRITERIA

- Pulverizer below bowl area will be inspected.
- Pulverizer above bowl area will be inspected.

3.0 DEFINITIONS/ACRONYMS

- AR Action Request
- LOTO Lock Out Tag Out
- PPE Personnel Protective Equipment
- MSDS Material Safety Data Sheet

4.0 REFERENCES

- MSDS for chemicals, cleaners, oil, grease, etc.
- Safety Handbook
- Torque values for lubricated fasteners

Bolt Size UNC-THD	Tensile Stress Area (sq-in)	Grade 1 A307, A & B	Grade 2 - - -	Grade 5 A325, ANY A449	Grade 7 - - -	Grade 8 A534, B & D, A490	ASTM A574
1/4" - 20	0.0318	3	5	7	8	10	11
5/16" - 18	0.524	5	9	14	17	20	23
3/8" - 18	0.775	10	17	25	31	35	41
7/16" - 14	0.1063	15	26	40	49	56	65
1/2" - 13	0.1419	23	40	60	74	85	99
5/8" - 11	0.226	47	79	120	148	169	191
3/4" - 10	0.334	83	140	212	263	300	338
7/8" - 9	0.462	133	133	343	424	484	545
1" - 8	0.606	200	200	491	635	725	816
1 1/8" - 7	0.763	283	283	634	899	1028	1156
1 1/4" - 7	0.969	399	399	894	1269	1450	1635
1 3/8" - 6	1.155	523	523	1172	1664	1901	2139
1 1/2"- 6	1.405	694	694	1556	2207	2523	2838
1 3/4" - 5	1.900	929	- - -	1824	- - -	3482	4478
2" - 4 1/2	2.500	1397	- - -	2744	- - -	5237	6734
2 1/4" - 4 1/2	3.250	2042	- - -	4012	- - -	7658	9848
2 1/2" - 4	4.00	2793	- - -	5486	- - -	10474	13466
2 3/4" - 4	4.930	3786	- - -	7438	- - -	12847	18257
3" - 4	5.970	5003	- - -	9826	- - -	16972	24118
3 1/4" - 4	7.100	6445	- - -	- - -	- - -	21866	31073
3 1/2" - 4	8.330	8143	- - -	- - -	- - -	27628	39260
3 3/4" - 4	9.660	10118	- - -	- - -	- - -	34323	48787
4" - 4	11.080	12379	- - -	- - -	- - -	41999	59683
Head Identification Grade Mark							

5.0 PRECAUTIONS, LIMITATIONS AND NOTES

- Hold tailgate meeting prior to performing procedure.
- Follow LOTO and permit procedures.
- Follow all confined space procedures.
- Wear proper PPE.
- Use precaution around rotating equipment.
- Beware of slippery surfaces.
- Keep area clean and organized.
- Be aware of other workers in the area.
- Inspect tools for proper condition.
- Use two-way radios.

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6.0 PREREQUISITES

6.1 Planning Group

6.1.1 ENTER the following information:

Work Order No. _____

Component Tag No. _____

Unit No. _____

Serial No. _____

6.1.2 Sound measurement at air seal will need to be taken prior to obtaining LOTO.

6.2 Mechanical Group

6.2.1 Personnel performing this procedure shall review all instructions, precautions, notes, and safety requirements prior to performing this procedure.

7.0 TOOLS AND MATERIALS

- Ladder and scaffolding as required
- Hand tools as required
- Rags, trash bags, Absorball
- Tip cleaner
- Air horns
- Disposable gloves
- Flashlight
- Vacuum cleaner
- Journal roll measuring tool
- Bull ring wear measuring tool
- Level
- Dipstick
- Siphon
- Journal spring assembly, 3 each
- Rigging and overhead crane operator

8.0 INSTRUCTIONS

8.1 General

8.1.1 Posted housekeeping zones shall be observed.

8.1.2 Drawings provided in this procedure are for reference only.

8.1.3 NOTIFY RCM to take sound measurement at air seal prior to removing mill from service.

Measurement _____

8.1.4 OBTAIN LOTO, confined space, and any other necessary permits before proceeding.

VERIFY

_____/_____ VERIFY that the housekeeping zone and cleanliness class are satisfactorily established as specified in the Work Order.

_____/_____ VERIFY that LOTO, confined space permit, and necessary permits have been obtained.

8.2 Pulverizer Inspection

☐ 8.2.1 OPEN three inspection doors on above bowl area of pulverizer and one inspection door on below area.

☐ 8.2.2 POSITION air horns at inspection doors in accordance with confined space procedures.

☐ 8.2.3 VACUUM out debris from above and below bowl areas.

8.2.4 INSPECT below bowl area of pulverizer.

☐ 8.2.4.1 OPEN inlet air access door.

☐ 8.2.4.2 INSPECT Inlet air directional vanes for damage and blockage.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.3 CLOSE inlet air access door.

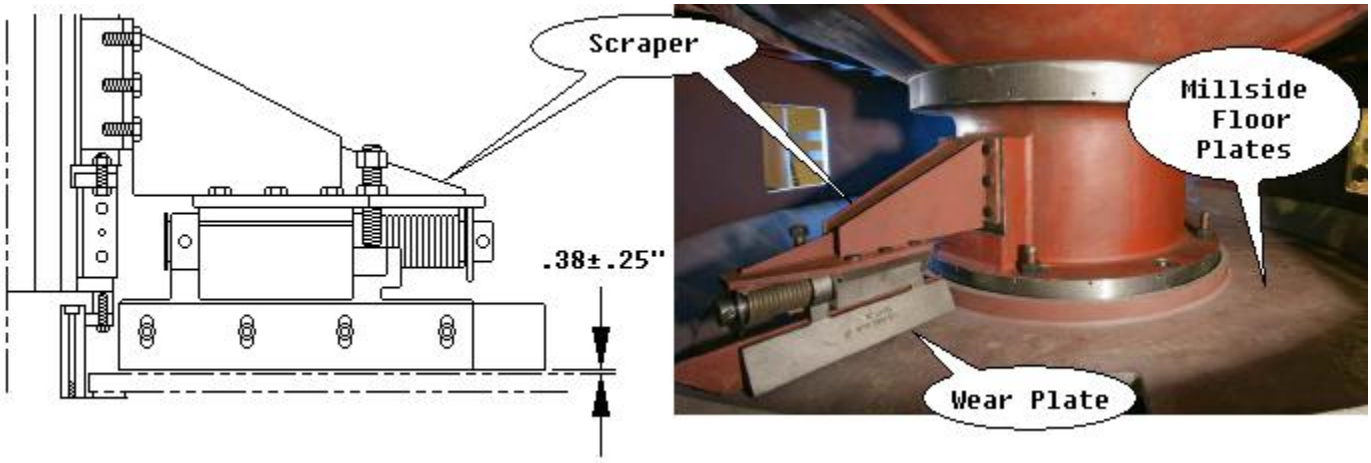
☐ 8.2.4.4 INSPECT millside floor plates for gouges, excessive wear, loose or missing hardware, bowing or warpage.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____



☐ 8.2.4.5 INSPECT wear plate on each of two scrapers for excessive wear and damage.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.6 CHECK clearance between wear plates on scrapers. Satisfactory clearance is .38 ± .25 inch.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.7 INSPECT millside liner plates for gouges, excessive wear, and loose or missing hardware.

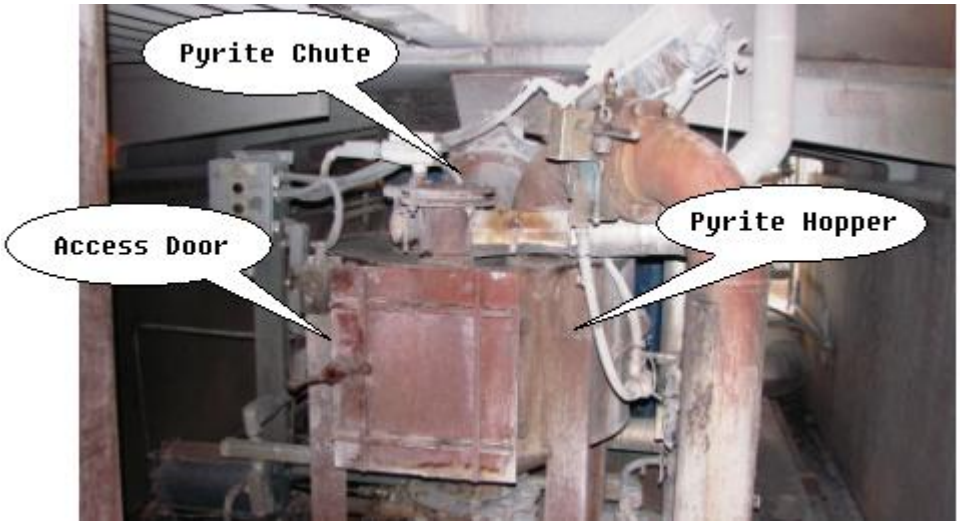
Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.8 OPEN access door on pyrite hopper.



☐ 8.2.4.9 INSPECT pyrite chute for pluggage.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.10 CLOSE AND SECURE access door on pyrite hopper.

_____/_____ 8.2.4.11 Inspection of below bowl area is complete.

8.2.5 INSPECT above bowl area of pulverizer.

☐ 8.2.5.1 CHECK all bullring segments for excessive wear. POSITION bullring wear measuring tool over surface of each segment as shown below. Using level and level adjusting screw, ADJUST bullring wear measuring tool until top of tool is level. Measurements taken at marks 90 degrees apart on measuring tool should not vary more than one inch overall. INDICATE measurement locations on diagram of bullring below.

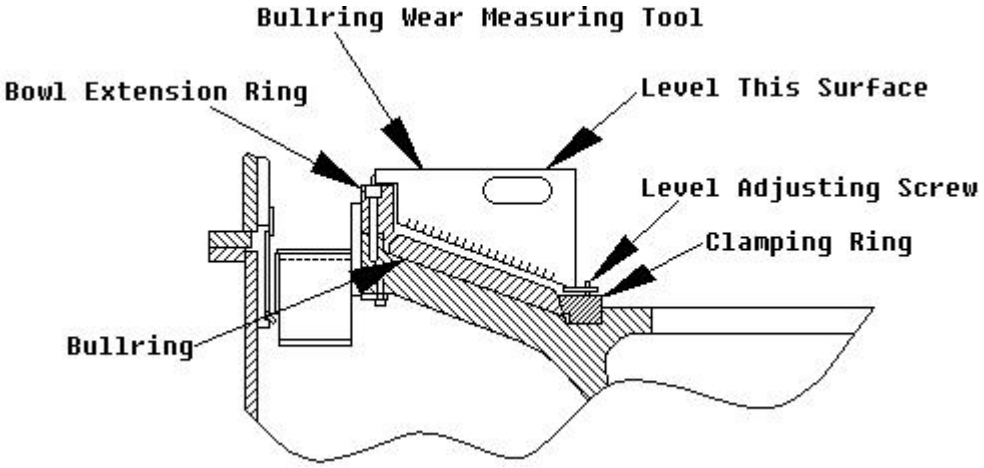
0º _____ inch 90º _____ inch 180º _____ inch 270º _____ inch

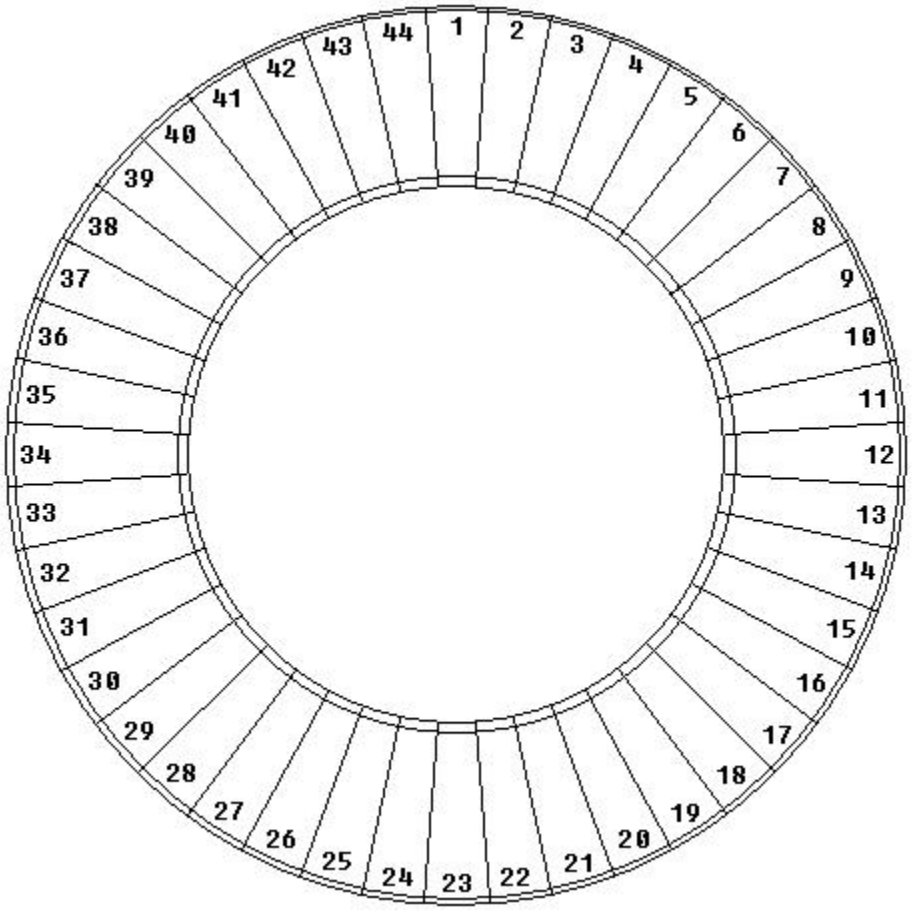
Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____


Bullring Wear Measuring Tool
Bowl Extension Ring
Level This Surface
Level Adjusting Screw
Clamping Ring
Bullring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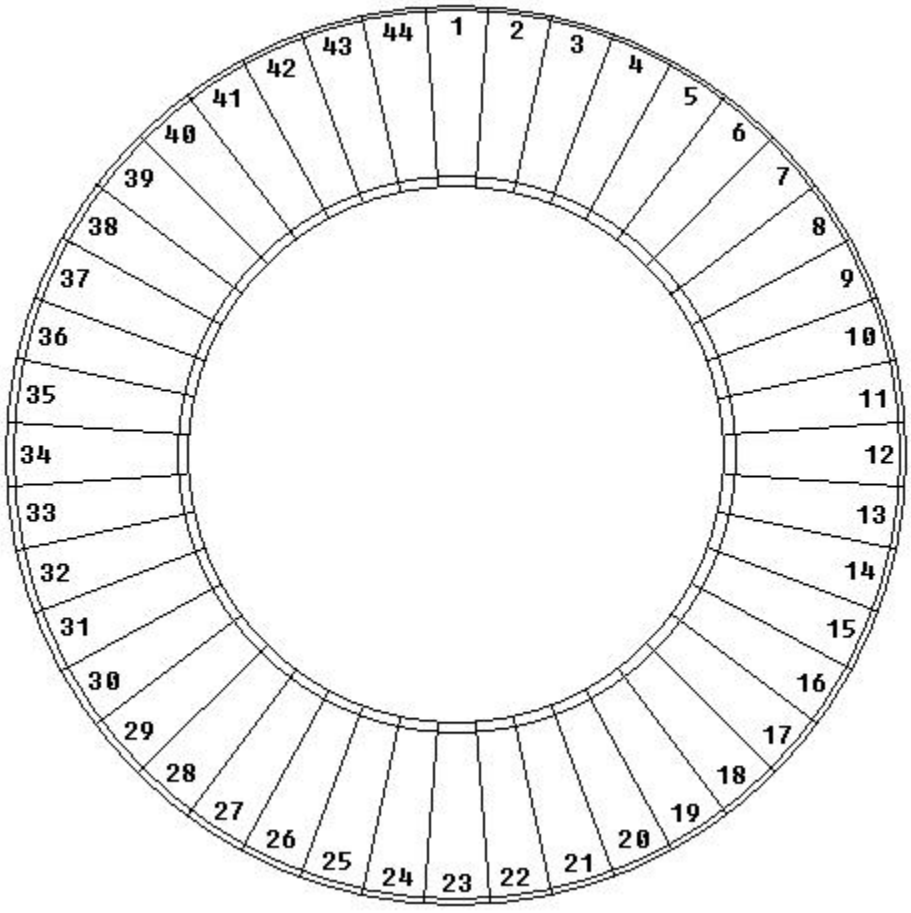
☐ 8.2.4.2 CHECK all bullring segments for even profile. Adjacent segments should be level to within .06 inch (level within .12 inch for full ring). INDICATE any segments that need to be adjusted or are coming loose on diagram.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____



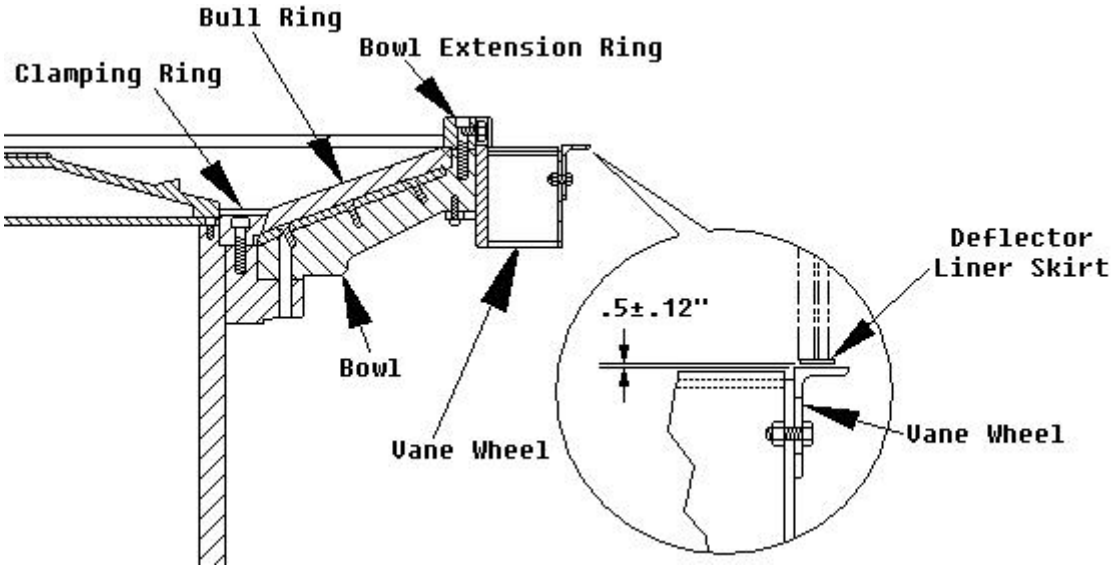
☐ 8.2.4.3 INSPECT vane wheel and attachments for pluggage.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____



☐ 8.2.4.4 RECORD clearance between vane wheel outer diameter and deflector liner skirt 90 degree intervals. Satisfactory clearance is .19 ± .12 inch.

0º _____ inch 90º _____ inch 180º _____ inch 270º _____ inch

Satisfactory _____

☐ 8.2.4.5 INSPECT bowl extension ring for excessive wear and loose or missing hardware.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.6 INSPECT clamping ring for tightness and missing hardware.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.7 INSPECT deflector liners for wear and integrity.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

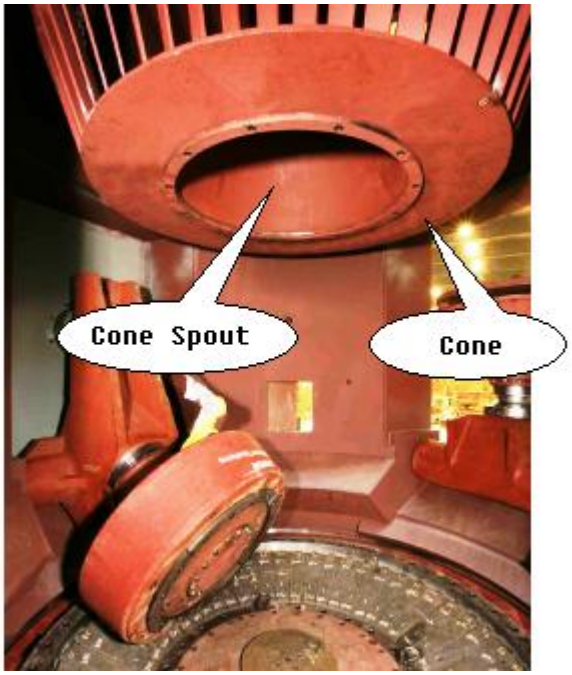
☐ 8.2.4.8 INSPECT exterior of cone and cone spout for wear.

Satisfactory _____

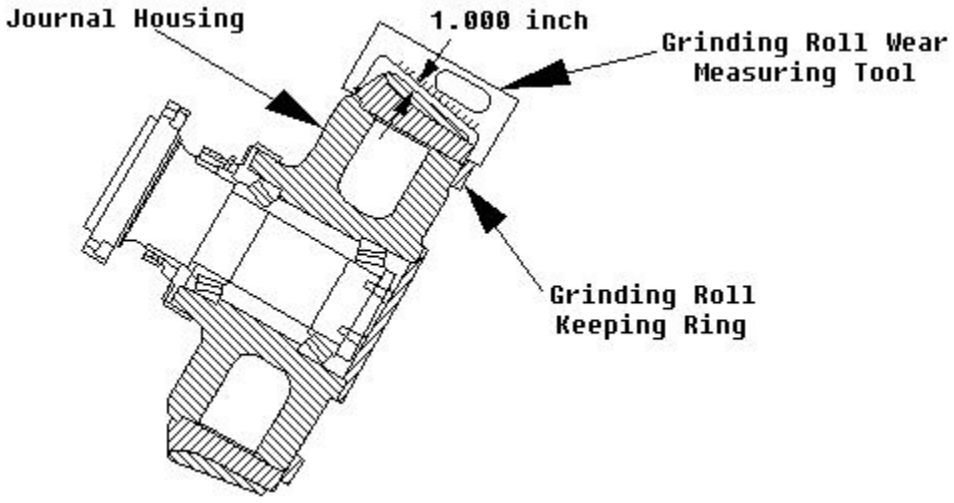
If unsatisfactory, describe condition below.

COMMENTS: _____

_____



☐ 8.2.4.9 CHECK three journals for wear and changes to profile of grinding surface. POSITION grinding roll wear measuring tool over grinding surface of roll on journal housing and grinding roll keeping ring as shown below. Measurements taken at marks on measuring tool should not vary more than one inch overall.



Journal #1 Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

Journal #2 Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

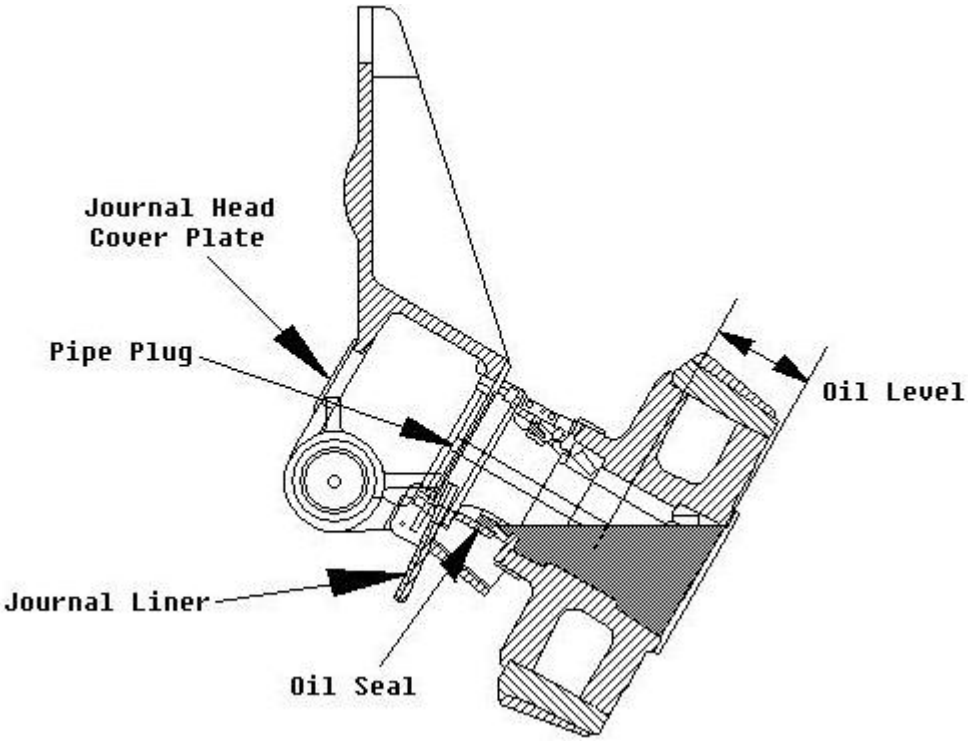
Journal #3 Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.10 REMOVE six bolts and journal head cover place from each journal.



☐ 8.2.4.11 REMOVE pipe plug from oil fill pipe in each journal AND CHECK oil level. Oil level should be between ADD and FULL marks on dipstick. INSTALL oil fill plug

Journal #1 Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

Journal #2 Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

Journal #3 Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.12 INSTALL journal head cover plate and six bolts on each journal.

☐ 8.2.4.13 INSPECT journal liners for wear and integrity.

Satisfactory _____

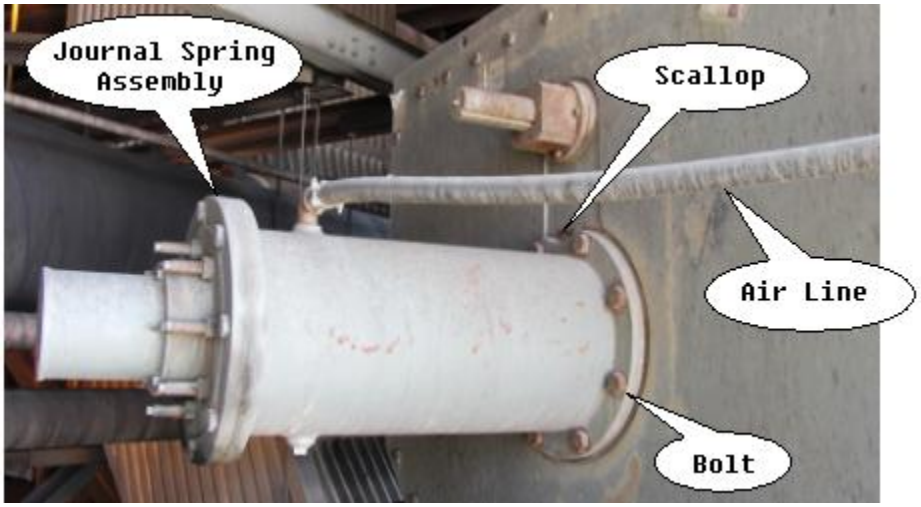
If unsatisfactory, describe condition below.

COMMENTS: _____

_____

8.2.4.14 REPLACE journal spring assemblies with preset spares.

☐ 8.2.14.1 DISCONNECT air line from fitting on first journal spring assembly.



☐ 8.2.14.2 WRAP sling around first journal spring assembly THEN ATTACH sling to overhead crane.

☐ 8.2.14.3 REMOVE eight bolts securing first journal spring assembly to pulverizer. PLACE bolts in zip-lock bag AND LABEL bag.

☐ 8.2.14.4 Using overhead crane, REMOVE first journal spring assembly from pulverizer. PLACE journal spring assembly on pallet.

☐ 8.2.14.5 APPLY grease to machined area of new journal spring assembly.

☐ 8.2.14.6 WRAP sling around new journal spring assembly THEN ATTACH sling to overhead crane.

☐ 8.2.14.7 Using overhead crane, POSITION new journal spring assembly on pulverizer in hole for first journal spring assembly with scallop area on flange at 12 o'clock position.

☐ 8.2.14.8 INSTALL eight bolts to secure new journal spring assembly to pulverizer.

☐ 8.2.14.9 CONNECT air line to fitting on new journal spring assembly.

☐ 8.2.14.10 DISCONNECT air line from fitting on second journal spring assembly.

☐ 8.2.14.11 WRAP sling around second journal spring assembly THEN ATTACH sling to overhead crane.

☐ 8.2.14.12 REMOVE eight bolts securing second journal spring assembly to pulverizer. PLACE bolts in zip-lock bag AND LABEL bag.

☐ 8.2.14.13 Using overhead crane, REMOVE second journal spring assembly from pulverizer. PLACE journal spring assembly on pallet.

☐ 8.2.14.14 APPLY grease to machined area of new journal spring assembly.

☐ 8.2.14.15 WRAP sling around new journal spring assembly THEN ATTACH sling to overhead crane.

☐ 8.2.14.16 Using overhead crane, POSITION new journal spring assembly on pulverizer in hole for second journal spring assembly with scallop area on flange at 12 o'clock position.

☐ 8.2.14.17 INSTALL eight bolts to secure new journal spring assembly to pulverizer.

☐ 8.2.14.18 CONNECT air line to fitting on new journal spring assembly.

☐ 8.2.14.19 DISCONNECT air line from fitting on third journal spring assembly.

☐ 8.2.14.20 WRAP sling around third journal spring assembly THEN ATTACH sling to overhead crane.

☐ 8.2.14.21 REMOVE eight bolts securing third journal spring assembly to pulverizer. PLACE bolts in zip-lock bag AND LABEL bag.

☐ 8.2.14.22 Using overhead crane, REMOVE third journal spring assembly from pulverizer. PLACE journal spring assembly on pallet.

☐ 8.2.14.23 APPLY grease to machined area of new journal spring assembly.

☐ 8.2.14.24 WRAP sling around new journal spring assembly THEN ATTACH sling to overhead crane.

☐ 8.2.14.25 Using overhead crane, POSITION new journal spring assembly on pulverizer in hole for third journal spring assembly with scallop area on flange at 12 o'clock position.

☐ 8.2.14.26 INSTALL eight bolts to secure new journal spring assembly to pulverizer.

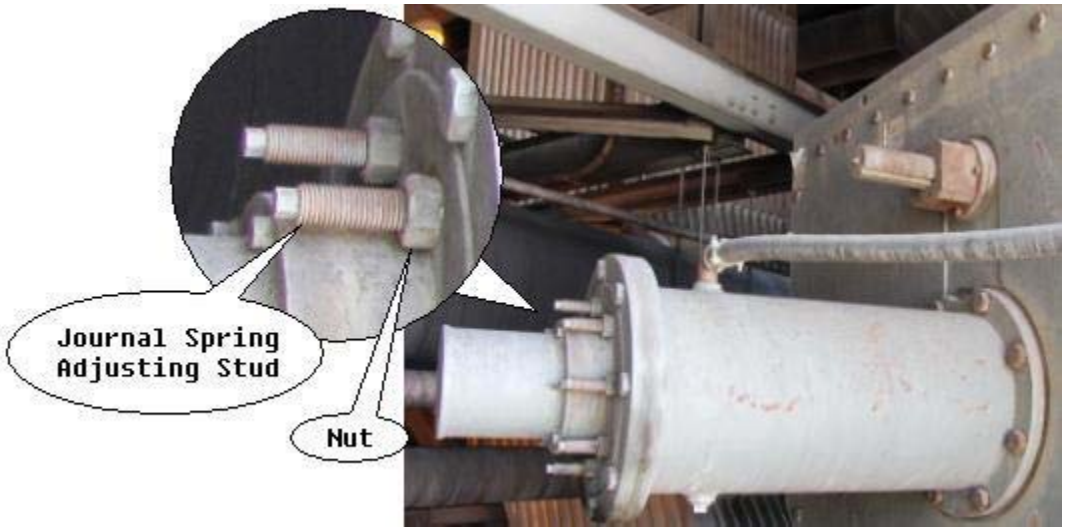
☐ 8.2.14.27 CONNECT air line to fitting on new journal spring assembly.

_____/_____ 8.2.14 Replacement of journal spring assemblies is complete.

8.2.4.15 SET roll to bullring clearance (this will be repeated for all three journals).

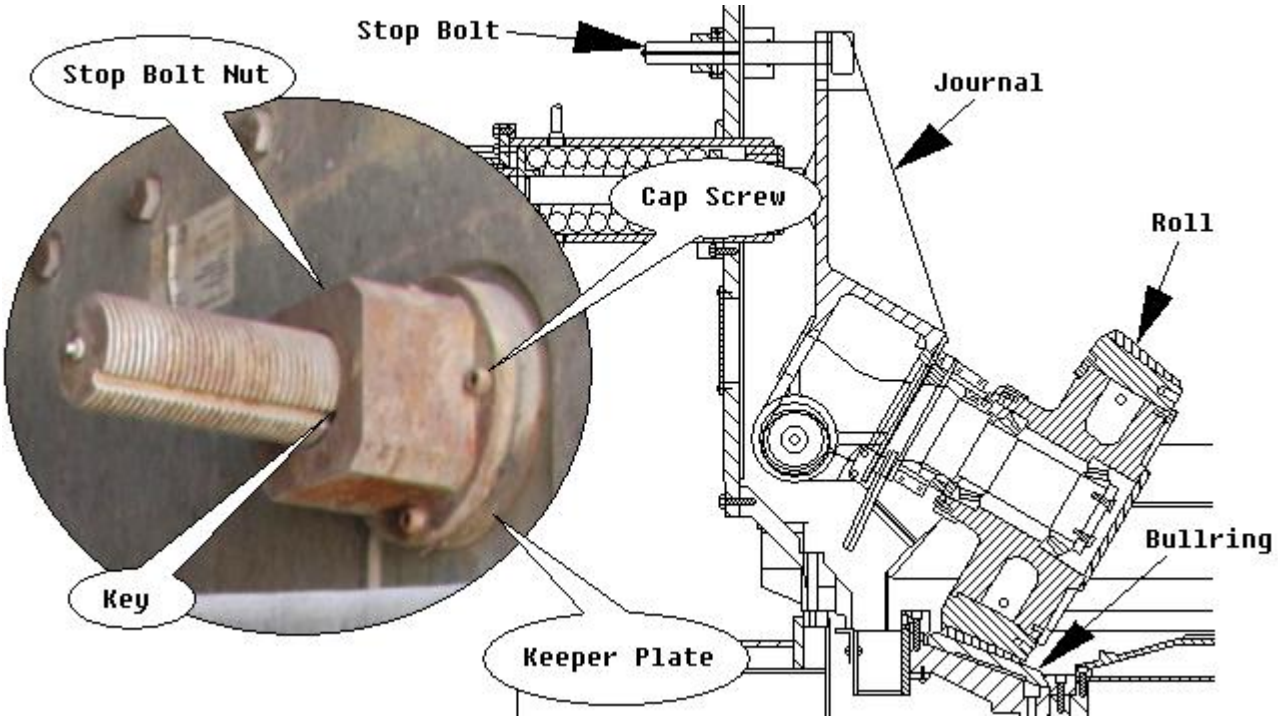
8.2.4.15.1 ADJUST first journal.

☐ 8.2.4.15.1.1 BACK OUT nuts on eight journal spring adjusting studs one inch to provide additional clearance between journal spring assembly and journal head.



NOTE: To ensure the stop bolt does not rotate during this process, be sure that the key and keeper plate remain in position

☐ 8.2.4.15.1.2 REMOVE four cap screws THEN LOOSEN stop bolt nut until journal rests on bowl.



☐ 8.2.4.15.1.3 MARK back face of roll at contact point between bullring and roll. LABEL this point "1".

☐ 8.2.4.15.1.4 RAISE roll by tightening stop bolt nut two flats.

☐ 8.2.4.15.1.5 FIND high spot on roll by turning roll through one full revolution.

☐ 8.2.4.15.1.6 If roll cannot be turned through one complete revolution, MARK contact point between bullring and roll AND LABEL this point "2". RAISE roll by tightening stop bolt nut two flats THEN turn roll again. Continue until roll can be turned one full revolution and high spot on roll can be found.

☐ 8.2.4.15.1.7 TURN roll so high spot is at six o'clock position.

☐ 8.2.4.15.1.8 TIGHTEN stop bolt two full revolutions to raise roll away from bullring.

_____/_____ 8.2.4.15.1.9 Adjustment of first journal is complete.

8.2.4.15.2 ADJUST second journal.

☐ 8.2.4.15.2.1 BACK OUT nuts on eight journal spring adjusting studs one inch to provide additional clearance between journal spring assembly and journal head.

☐ 8.2.4.15.2.2 REMOVE four cap screws THEN LOOSEN stop bolt nut until journal rests on bowl.

☐ 8.2.4.15.2.3 MARK back face of roll at contact point between bullring and roll. LABEL this point "1".

☐ 8.2.4.15.2.4 RAISE roll by tightening stop bolt nut two flats.

☐ 8.2.4.15.2.5 FIND high spot on roll by turning roll through one full revolution.

☐ 8.2.4.15.2.6 If roll cannot be turned through one complete revolution, MARK contact point between bullring and roll AND LABEL this point "2". RAISE roll by tightening stop bolt nut two flats THEN turn roll again. Continue until roll can be turned one full revolution and high spot on roll can be found.

☐ 8.2.4.15.2.7 TURN roll so high spot is at six o'clock position.

☐ 8.2.4.15.2.8 TIGHTEN stop bolt two full revolutions to raise roll away from bullring.

_____/_____ 8.2.4.15.2.9 Adjustment of second journal is complete.

8.2.4.15.3 ADJUST third journal.

☐ 8.2.4.15.3.1 BACK OUT nuts on eight journal spring adjusting studs one inch to provide additional clearance between journal spring assembly and journal head.

☐ 8.2.4.15.3.2 REMOVE four cap screws THEN LOOSEN stop bolt nut until journal rests on bowl.

☐ 8.2.4.15.3.3 MARK back face of roll at contact point between bullring and roll. LABEL this point "1".

☐ 8.2.4.15.3.4 RAISE roll by tightening stop bolt nut two flats.

☐ 8.2.4.15.3.5 FIND high spot on roll by turning roll through one full revolution.

☐ 8.2.4.15.3.6 If roll cannot be turned through one complete revolution, MARK contact point between bullring and roll AND LABEL this point "2". RAISE roll by tightening stop bolt nut two flats THEN turn roll again. Continue until roll can be turned one full revolution and high spot on roll can be found.

☐ 8.2.4.15.3.7 TURN roll so high spot is at six o'clock position.

☐ 8.2.4.15.3.8 TIGHTEN stop bolt two full revolutions to raise roll away from bullring.

_____/_____ 8.2.4.15.3.9 Adjustment of third journal is complete.

☐ 8.2.4.15.4 ENSURE no rolls are still in contact with bullring.

☐ 8.2.4.15.5 REMOVE any foreign material from bowl area.

☐ 8.2.4.15.6 CLOSE three inspection doors on above bowl area of pulverizer and one inspection door on below area.

☐ 8.2.4.15.7 NOTIFY Control Room of intent to Test Operation of Equipment under Clearance.

☐ 8.2.4.15.8 PLACE pulverizer lube oil system in operation AND START pulverizer.

☐ 8.2.4.15.9 LOOSEN stop bolt nut for first journal until first indication of contact with bullring.

☐ 8.2.4.15.10 TIGHTEN stop bolt nut for first journal one full revolution to raise roll.

☐ 8.2.4.15.11 LOOSEN stop bolt nut for second journal until first indication of contact with bullring.

☐ 8.2.4.15.12 TIGHTEN stop bolt nut for second journal one full revolution to raise roll.

☐ 8.2.4.15.13 LOOSEN stop bolt nut for third journal until first indication of contact with bullring.

☐ 8.2.4.15.14 TIGHTEN stop bolt nut for third journal one full revolution to raise roll.

☐ 8.2.4.15.15 STOP AND ISOLATE pulverizer and lube oil system.

☐ 8.2.4.15.16 INSTALL keeper plate and four cap screws to secure stop bolt nut for first journal. If screw holes are not lined up, tighten stop bolt nut as necessary.

☐ 8.2.4.15.17 INSTALL keeper plate and four cap screws to secure stop bolt nut for second journal.

☐ 8.2.4.15.18 INSTALL keeper plate and four cap screws to secure stop bolt nut for third journal.

_____/_____ 8.2.4.15.19 Setting of roll to bullring clearance is complete.

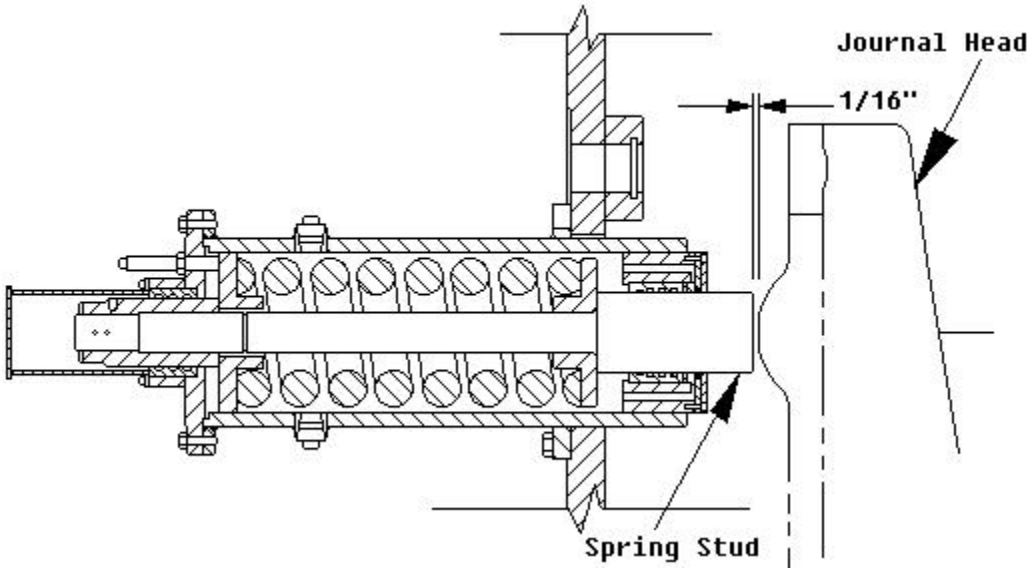
☐ 8.2.4.16 OPEN three inspection doors on above bowl area of pulverizer.

☐ 8.2.4.17 VERIFY nothing is wedged under rolls by turning each by hand.

8.2.4.18 ADJUST journal spring assembly to journal head gap (this will be repeated for all three journals).

8.2.4.18.1 ADJUST first journal.

☐ 8.2.4.18.1.1 Using nuts on two opposite journal spring adjusting studs, ADJUST journal spring assembly until there is a 1/16 inch gap between spring stud face and journal head. INSERT 0.06 inch shim to maintain gap.



☐ 8.2.4.18.1.2 ADJUST eight journal spring adjusting studs to make contact spring stud adapter. VERIFY all studs are positioned correctly by measuring stud length extending from spring housing cover. Measurements should be same within 0.06 inch.

☐ 8.2.4.18.1.3 REMOVE 0.06 inch shim AND VERIFY gap.

☐ 8.2.4.18.1.4 TORQUE nuts on journal spring adjusting studs in accordance with table in References, Section 4.0.

_____/_____ 8.2.4.18.1.5 Adjustment of first journal is complete.

8.2.4.18.2 ADJUST second journal.

☐ 8.2.4.18.2.1 Using nuts on two opposite journal spring adjusting studs, ADJUST journal spring assembly until there is a 1/16 inch gap between spring stud face and journal head. INSERT 0.06 inch shim to maintain gap.

☐ 8.2.4.18.2.2 ADJUST eight journal spring adjusting studs to make contact spring stud adapter. VERIFY all studs are positioned correctly by measuring stud length extending from spring housing cover. Measurements should be same within 0.06 inch.

☐ 8.2.4.18.2.3 REMOVE 0.06 inch shim AND VERIFY gap.

☐ 8.2.4.18.2.4 TORQUE nuts on journal spring adjusting studs in accordance with table in References, Section 4.0.

_____/_____ 8.2.4.18.2.5 Adjustment of second journal is complete.

8.2.4.18.3 ADJUST third journal.

☐ 8.2.4.18.3.1 Using nuts on two opposite journal spring adjusting studs, ADJUST journal spring assembly until there is a 1/16 inch gap between spring stud face and journal head. INSERT 0.06 inch shim to maintain gap.

☐ 8.2.4.18.3.2 ADJUST eight journal spring adjusting studs to make contact spring stud adapter. VERIFY all studs are positioned correctly by measuring stud length extending from spring housing cover. Measurements should be same within 0.06 inch.

☐ 8.2.4.18.3.3 REMOVE 0.06 inch shim AND VERIFY gap.

☐ 8.2.4.18.3.4 TORQUE nuts on journal spring adjusting studs in accordance with table in References, Section 4.0.

_____/_____ 8.2.4.18.3.5 Adjustment of third journal is complete.

_____/_____ 8.2.4.16.7 Journal spring assembly to journal head gap adjustment is complete.

☐ 8.2.4.17 ROLL each journal to check for ease turning.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.18 INSPECT interior of separator body for wear AND RECORD worn areas.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.19 INSPECT inner cone surface for integrity of ceramic tile.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

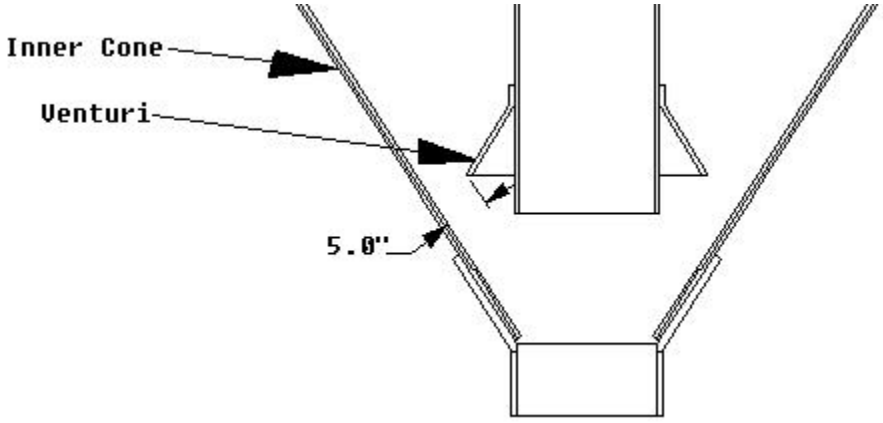
☐ 8.2.4.20 RECORD inverted cone to cone clearance. The gap should be five inches.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____



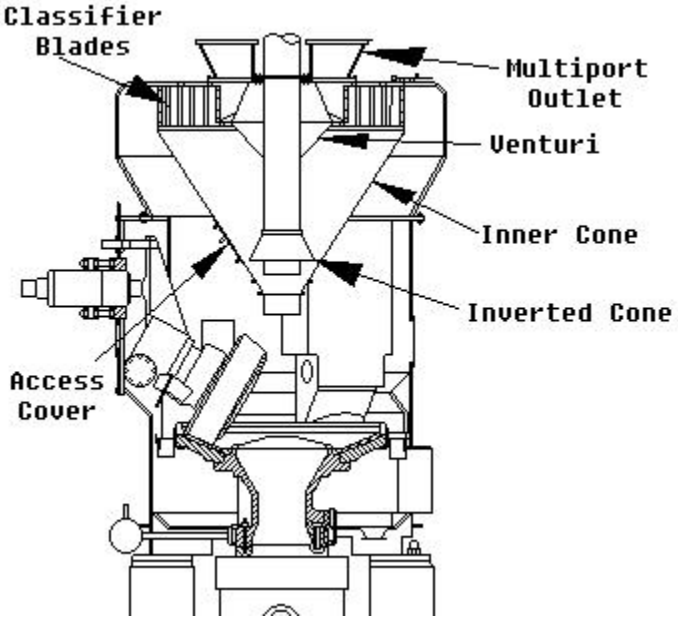
☐ 8.2.4.21 INSPECT classifier blades for integrity and alignment.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____



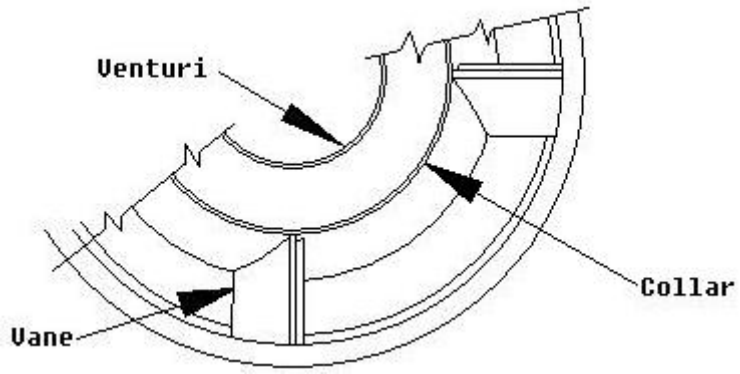
☐ 8.2.4.22 INSPECT venture collar for holes and wear.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____



☐ 8.2.4.23 INSPECT venture vanes for integrity and wear.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.24 INSPECT venture for wear.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.25 INSPECT four multiport outlets for wear.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

☐ 8.2.4.26 INSPECT riffle distributors for wear and pluggage.

Satisfactory _____

If unsatisfactory, describe condition below.

COMMENTS: _____

_____

_____/_____ 8.2.4.27 Inspection of above bowl area of pulverizer is complete

_____/_____ 8.2.5 Inspection is complete.

VERIFY

_____/_____ VERIFY the satisfactory completion of steps 8.2 through 8.2.5.

9.0 TESTING

Not applicable.

10.0 CLOSEOUT

☐ 10.1 NOTIFY supervisor of unsatisfactory conditions documented during inspection.

☐ 10.2 CLEAN UP all trash in the area.

☐ 10.3 DISPOSE of all trash properly.

☐ 10.4 RELEASE LOTO and any other permits.

☐ 10.5 DISPOSE of old roller(s) in metal dumpster located south of main warehouse.

☐ 10.6 RETURN all tools to their proper appropriate locations.

☐ 10.7 RECORD job information and man hours on Work Order for historical and accounting purposes.

☐ 10.8 ENTER an Action Request (AR) for any problems not corrected.

Data Reviewed & Approved: _____ Date _____
Mechanical Maintenance Supervisor

11.0 ATTACHMENTS/FORMS

None