

Maintenance check sheet

AC Motor Routine Maintenance

E&M form No.

FM-04-010

Rev. 1Sheet 1 of 1Plant system : FCXIEquipment name : BY PASS DAMPEREquipment code : M113Type code MS8054Frame size 80Voltage (V) 220/400S/N No. G1102Rating (kW) 0.75Current (A) 3.5/2.0Manufacturer ETSTOPower Factor 0.76Frequency (Hz) 50Insulation class F (155°C)I.P 54Speed (rpm) 1410

Item	Description	Condition			
1	Cleaning of motor frame	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NO		
2	Inspection of motor frame	<input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> NO Damaged		
3	Doweling and holding down bolts inspection	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
4	Cooling fan and fan cover cleaning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NO		
5	Inspection cooling fan and cover	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
6	Inspection Coupling or pulley	<input type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
7	Inspection cable box and terminal connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
8	Inspection grouding wire connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
9	Stator winding insulation test	U-G <u>559 MΩ</u>	V-G <u>576 MΩ</u>	W-G <u>583 MΩ</u>	
10	Stator winding resistance test	U-V <u>20.8 Ω</u>	V-W <u>20.8 Ω</u>	U-W <u>20.8 Ω</u>	
11	Running current on load test	U _(A) <u>-</u>	V _(A) <u>-</u>	W _(A) <u>-</u>	

Note ☒ Condition can check☐ Condition can't checkPrepared by Technician : Premprach. D.Pichet T.Checked by Engineer : SomkieadDate : 22 Aug 2422-Aug-24Date : 22 Aug 24

Maintenance check sheet

AC Motor Routine Maintenance

E&M form No.

FM-04-010

Rev. 1Sheet 1 of 1Plant system : FCXIEquipment name : FLUE GAS DAMPEREquipment code : M111Type code MS8054Frame size 80Voltage (V) 220/400S/N No. G1102Rating (kW) 0.75Current (A) 3.5/2.0Manufacturer ETSTOPower Factor 0.76Frequency (Hz) 50Insulation class F (155°C)I.P. 54Speed (rpm) 1420

Item	Description	Condition					
1	Cleaning of motor frame	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO			
2	Inspection of motor frame	<input type="checkbox"/> Damaged		<input checked="" type="checkbox"/> NO Damaged			
3	Doweling and holding down bolts inspection	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage			
4	Cooling fan and fan cover cleaning	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO			
5	Inspection cooling fan and cover	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage			
6	Inspection Coupling or pulley	<input type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage			
7	Inspection cable box and terminal connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage			
8	Inspection grouding wire connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage			
9	Stator winding insulation test	U-G	<u>654 MΩ</u>	V-G	<u>672 MΩ</u>	W-G	<u>698 MΩ</u>
10	Stator winding resistance test	U-V	<u>20.9 Ω</u>	V-W	<u>21.0 Ω</u>	U-W	<u>20.9 Ω</u>
11	Running current on load test	U _(A)	<u>-</u>	V _(A)	<u>-</u>	W _(A)	<u>-</u>

Note ☒ Condition can check☐ Condition can't checkPrepared by Technician : Prempracha. D.Pichet T.Checked by Engineer : SomkieadDate : 22 Aug 2422-Aug-24Date : 22 Aug 24

Maintenance check sheet

AC Motor Routine Maintenance

E&M form No.

FM-04-010

Rev. 1Sheet 1 of 1Plant system : FCXIEquipment name : FLUE GAS EXTRATION FANEquipment code : M104Type code SQ108M4Frame size 180Voltage (V) 380/660S/N No. G032070Rating (kW) 18.5Current (A) 32.8Manufacturer ELECTRIMPower Factor 0.9Frequency (Hz) 50Insulation class F (155°C)I.P 55Speed (rpm) 1475

Item	Description	Condition			
1	Cleaning of motor frame	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO	
2	Inspection of motor frame	<input type="checkbox"/> Damaged		<input checked="" type="checkbox"/> NO Damaged	
3	Doweling and holding down bolts inspection	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
4	Cooling fan and fan cover cleaning	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO	
5	Inspection cooling fan and cover	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
6	Inspection Coupling or pulley	<input type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
7	Inspection cable box and terminal connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
8	Inspection grouding wire connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
9	Stator winding insulation test	U-G <u>1.105 GΩ</u>	V-G <u>1.198 GΩ</u>	W-G <u>1.237 GΩ</u>	
10	Stator winding resistance test	U-V <u>0.50 Ω</u>	V-W <u>0.50 Ω</u>	U-W <u>0.50 Ω</u>	
11	Running current on load test	U _(A) <u>-</u>	V _(A) <u>-</u>	W _(A) <u>-</u>	

Note ☒ Condition can check☐ Condition can't checkPrepared by Technician : Premprach. D.Pichet T.Checked by Engineer : SomkieadDate : 22 Aug 2422-Aug-24Date : 22 Aug 24

Maintenance check sheet

AC Motor Routine Maintenance

E&M form No.

FM-04-010

Rev. 1Sheet 1 of 1Plant system : FCXIEquipment name : FLUME GAS EXTRATION FANEquipment code : M107Type code FS-JFrame size 180Voltage (V) 380S/N No. 498Rating (kW) 18.5Current (A) 36.5Manufacturer MISUBISHIPower Factor -Frequency (Hz) 50Insulation class B (130°C)I.P -Speed (rpm) 1460

Item	Description	Condition			
1	Cleaning of motor frame	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO	
2	Inspection of motor frame	<input type="checkbox"/> Damaged		<input checked="" type="checkbox"/> NO Damaged	
3	Doweling and holding down bolts inspection	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
4	Cooling fan and fan cover cleaning	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO	
5	Inspection cooling fan and cover	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
6	Inspection Coupling or pulley	<input type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
7	Inspection cable box and terminal connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
8	Inspection grouding wire connections	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Loose	<input type="checkbox"/> Damage	
9	Stator winding insulation test	U-G <u>1.112 GΩ</u>	V-G <u>1.240 GΩ</u>	W-G <u>1.309 GΩ</u>	
10	Stator winding resistance test	U-V <u>0.60 Ω</u>	V-W <u>0.60 Ω</u>	U-W <u>0.70 Ω</u>	
11	Running current on load test	U _(A) <u>-</u>	V _(A) <u>-</u>	W _(A) <u>-</u>	

Note ☒ Condition can check☐ Condition can't checkPrepared by Technician : Premprach. D.Pichet T.Checked by Engineer : SomkieadDate : 22 Aug 2422-Aug-24Date : 22 Aug 24

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		Casting			
Equipment		MFE		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
Bearing greasing (EP0= 4 strokes)					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
Coupling visual for vibration check					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan unit visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan impeller cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Suction flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak		remark _____
Discharge flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak		remark _____
3 Flue gas duct reversal valve ;					
For burner #1 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
For burner #2 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Suction flexible joint check leak					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	✓	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	✓	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	✓	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	✓	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	✓	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	✓	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	✓	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	✓	<input type="checkbox"/> not leak
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	✓	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	✓	<input type="checkbox"/> not leak
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	✓	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	✓	<input type="checkbox"/> not leak
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 strokes)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	✓	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	✓	<input type="checkbox"/> not leak
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	✓	<input type="checkbox"/> not leak
✓ <input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
12 Furnace roof general cleaning;				
✓ <input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____

Bearing greasing (EP0= 4 stroke

Belt condition and tension check

☐ swing ☒ good tension ☐ replacement ☐ remark _____

Fan unit visual for vibration and noise

☐ *vibration* ☐ *noise* ☒ *acceptable* *remark*

Belt condition and tension check

☐ swing ☒ good tension ☐ replacement ☐ remark _____

Fan unit visual for vibration and noise

☐ *vibration* ☐ *noise* ☒ *acceptable* *remark*

Check at suction duct on fume hood.

Air velocity average $(A+B+C+D+E)/5 =$ 9.6

Fume Suction
duct

☒ no need follow up. ☐ need follow up.

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
<u>PHAKHAWA</u>	<u>WUTTIPORN</u>	<u>NARUPON</u>	<u>NIKON</u>
Date : <u>15-JULY-24</u>	Date : <u>16-JULY-24</u>	Date: <u>16-JULY-24</u>	Date: <u>16-JULY-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

Bearing greasing (EP0= 4 stroke

Belt condition and tension check

Fan unit visual for vibration and noise

14 Furnace common fume fan ; (check only MFE1)

Belt condition and tension check

☐ swing ☒ good tension ☐ replacement ☐ remark

Fan unit visual for vibration and noise

☐ *vibration* ☐ *noise* ☒ *acceptable* *remark*

Check at suction duct on fume hood.

A diagram of a circular fume hood. The hood is divided into four quadrants by a vertical and a horizontal line. The quadrants are labeled A (top left), B (top right), C (bottom left), and D (bottom right). A central square area is labeled E. A label 'Fume Suction duct' with a leader line points to the top right quadrant (B).

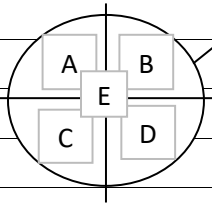
Air velocity average $(A+B+C+D+E)/5 =$ 9.8

☒ no need follow up. ☐ need follow up.

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
<u>PHAKHAWA</u>	<u>WUTTIPORN</u>	<u>NARUPON</u>	<u>NIKON</u>
Date : 16-AUG-24	Date : 17-AUG-24	Date: 17-AUG-24	Date: 17-AUG-24

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
For Melting furnace maintenance				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		Casting			
Equipment		MFE		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
Bearing greasing (EP0= 4 stroke)					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
Coupling visual for vibration check					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan unit visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan impeller cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Suction flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
Discharge flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
3 Flue gas duct reversal valve ;					
For burner #1 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
For burner #2 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Suction flexible joint check leak					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

13 Furnace common stack fan ; (check only MFE1)						
<i>Bearing greasing (EP0= 4 stroke</i>						
<input checked="" type="checkbox"/> greasing	<input type="checkbox"/> cleaning	remark _____				
<i>Belt condition and tension check</i>						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
<i>Fan unit visual for vibration and noise</i>						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
14 Furnace common fume fan ; (check only MFE1)						
<i>Belt condition and tension check</i>						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
<i>Fan unit visual for vibration and noise</i>						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
15 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)						
Check at suction duct on fume hood.						
Position	A	B	C	D	E	
Air velocity (m/s)	9	10	10	0	10	
Air velocity average (A+B+C+D+E)/5 = 7.8						
<u>Conclusion.</u>						
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.						
Item	Description				Follow up by	
	MFE1-CBN1 Repair Flanged Flexible Connector hot air leak				Saythong	
Done by E&M Technician :	Checked by E&M Engineer :		Acceptance by		Approved by	
PHAKHAWA	WUTTIPORN		Production Staff :		Assistant / E&M Manager :	
Date : 16-SEP-24	Date : 17-SEP-24		NARUPON		NIKON	
			Date: 17-SEP-24		Date: 17-SEP-24	

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

Bearing greasing (EP0= 4 stroke

Belt condition and tension check

Fan unit visual for vibration and noise

14 Furnace common fume fan; (check only MFE1)

Belt condition and tension check

Fan unit visual for vibration and noise

15 Furnace door fume duct air velocity check ; (normal average at ≥ 10 m/s)

Check at suction duct on fume hood.

Air velocity average $(A+B+C+D+E)/5 =$ 7.8

Fume Suction
duct

Conclusion.

☒ no need follow up. ☐ need follow up.

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
<u>PHAKHAWA</u>	<u>WUTTIPORN</u>	<u>NARUPON</u>	<u>NIKON</u>
Date : <u>16-OCT-24</u>	Date : <u>17-OCT-24</u>	Date: <u>17-OCT-24</u>	Date: <u>17-OCT-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

Bearing greasing (EP0= 4 stroke

Belt condition and tension check

Fan unit visual for vibration and noise

14 Furnace common fume fan; (check only MFE1)

Belt condition and tension check

Fan unit visual for vibration and noise

15 Furnace door fume duct air velocity check ; (normal average at $\Delta T = 10$ m/s)

Check at suction duct on fume hood.

Air velocity average $(A+B+C+D+E)/5 =$ 9.8

Fume Suction
duct

Conclusion.

☒ no need follow up. ☐ need follow up.

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
<u>PHAKHAWA</u>	<u>WUTTIPOORN</u>	<u>NARUPON</u>	<u>NIKON</u>
Date : <u>18-NOV-24</u>	Date : <u>19-NOV-24</u>	Date: <u>19-NOV-24</u>	Date: <u>19-NOV-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/> not leak		remark _____	
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

13 Furnace common stack fan ; (check only MFEI)

Bearing greasing (EP0= 4 stroke

☒ greasing ☐ cleaning remark _____

Belt condition and tension check

☐ *swing* ☒ *good tension* ☐ *replacement* *remark* _____

Fan unit visual for vibration and noise

	<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
--	------------------------------------	--------------------------------	-------------------------------------	-------------------------------------	--------------

14 Furnace common fume fan ; (check only MFE1)

Belt condition and tension check

☐ swing ☒ good tension ☐ replacement remark _____

Fan unit visual for vibration and noise

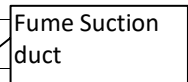
<input type="checkbox"/> <i>vibration</i>	<input type="checkbox"/> <i>noise</i>	<input checked="" type="checkbox"/> <i>acceptable</i>	<i>remark</i> _____
---	---------------------------------------	---	---------------------

15	Furnace door fume duct air velocity check ; (normal average at >=10 m/s)		Fume Suction duct
----	--	---	----------------------

Check at suction duct on fume hood.

	Position	A	B	C	D	E	
	Air velocity (m/s)	9	10	10	10	9	

Air velocity average (A+B+C+D+E)/5 =	9.6
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Conclusion.

☒ no need follow up. ☐ need follow up.

[illegible]

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by	Approved by
--------------------------	---------------------------	---------------	-------------

DUAKHAWA	MULTIDORN	Production Staff :	Assistant / E&M Manager :
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PHAKHAWA	WUTTIPOBN	NARUPON	NIKON
10 P50 34	10 P50 34	10 P50 34	10 P50 34

Checked by E&M Engineer :	Acceptance by	Approved by
---------------------------	---------------	-------------

	Production Staff :	Assistant / E&M Manager :
--	--------------------	---------------------------

WUTTIPOORN	NARUPON	NIKON
10 DEC 31	10 DEC 31	10 DEC 31

Acceptance by	Approved by
---------------	-------------

Production Staff :	Assistant / E&M Manager :
--------------------	---------------------------

NARUPON	NIKON
10.550.34	10.550.34

NARUPON		NIKON	
10-B50-34		10-B50-34	

Approved by

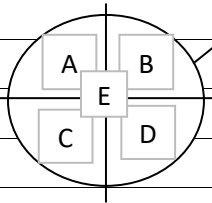
tant / E&M Manager :

NIKON

NIKON

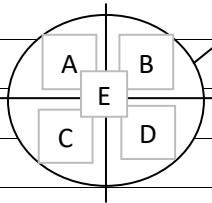
Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
Bearing greasing (EP0= 4 stroke)					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
Coupling visual for vibration check					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan unit visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan impeller cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Suction flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
Discharge flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
3 Flue gas duct reversal valve ;					
For burner #1 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
For burner #2 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Suction flexible joint check leak					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

13 Furnace common stack fan ; (check only MFE1)						
Bearing greasing (EP0= 4 stroke						
<input checked="" type="checkbox"/> greasing	<input type="checkbox"/> cleaning	remark _____				
Belt condition and tension check						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
Fan unit visual for vibration and noise						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
14 Furnace common fume fan ; (check only MFE1)						
Belt condition and tension check						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
Fan unit visual for vibration and noise						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
15 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)						
Check at suction duct on fume hood.						
Position	A	B	C	D	E	
Air velocity (m/s)	9	9	9	10	109	
Air velocity average (A+B+C+D+E)/5 = 29.2 m/s						
<u>Conclusion.</u>						
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.						
Item	Description				Follow up by	
	MACHINE NOT RUN					
	MFE2, Change Main gas Shut off valve				Mr. Somkiead	
Done by E&M Technician :	Checked by E&M Engineer :		Acceptance by		Approved by	
PHAKHAWAN	WUTTIPORN		Production Staff :		Assistant / E&M Manager :	
Date : 15-JULY-24	Date : 16-JULY-24		NARUPON		NIKON	
			Date: 16-JULY-24		Date: 16-JULY-24	

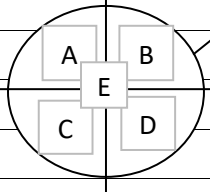
Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

13 Furnace common stack fan ; (check only MFE1)						
Bearing greasing (EP0= 4 stroke						
<input checked="" type="checkbox"/> greasing	<input type="checkbox"/> cleaning	remark _____				
Belt condition and tension check						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
Fan unit visual for vibration and noise						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
14 Furnace common fume fan ; (check only MFE1)						
Belt condition and tension check						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
Fan unit visual for vibration and noise						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
15 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)						
Check at suction duct on fume hood.						
Position	A	B	C	D	E	
Air velocity (m/s)	9	9	9	9	9	
Air velocity average (A+B+C+D+E)/5 = 9 m/s						
<u>Conclusion.</u>						
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.						
Item	Description				Follow up by	
	MACHINE NOT RUN					
	Furnace minor refractory repairing, Change Cast Iron Block And Door Seal.				MAHAMIT ENGINEERING	
Done by E&M Technician :	Checked by E&M Engineer :		Acceptance by		Approved by	
PHAKHAWAN	WUTTIPORN		Production Staff :		Assistant / E&M Manager :	
Date : 16-AUG-24	Date : 17-AUG-24		NARUPON		NIKON	
			Date: 17-AUG-24		Date: 17-AUG-24	

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

13 Furnace common stack fan ; (check only MFEI)						
Bearing greasing (EP0= 4 stroke						
<input checked="" type="checkbox"/> greasing	<input type="checkbox"/> cleaning	remark _____				
Belt condition and tension check						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
Fan unit visual for vibration and noise						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
14 Furnace common fume fan ; (check only MFEI)						
Belt condition and tension check						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
Fan unit visual for vibration and noise						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
15 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)						
Check at suction duct on fume hood.						
Position	A	B	C	D	E	
Air velocity (m/s)	9	9	9	10	9	
Air velocity average (A+B+C+D+E)/5 = 9.2 m/s						
<u>Conclusion.</u>						
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.						
Item	Description				Follow up by	
	MACHINE NOT RUN					
Done by E&M Technician :	Checked by E&M Engineer :		Acceptance by		Approved by	
PHAKHAWAN	WUTTIPORN		Production Staff :		Assistant / E&M Manager :	
Date : 16-SEP-24	Date : 17-SEP-24		NARUPON		NIKON	
			Date: 17-SEP-24		Date: 17-SEP-24	

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

Bearing greasing (EP0= 4 stroke

Belt condition and tension check

Fan unit visual for vibration and noise

14 Furnace common fume fan; (check only MFE1)

Belt condition and tension check

Fan unit visual for vibration and noise

15 Furnace door fume duct air velocity check ; (normal average at ≥ 10 m/s)

Check at suction duct on fume hood.

Air velocity average $(A+B+C+D+E)/5 =$ **9.2** m/s

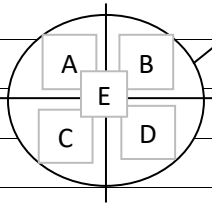
Conclusion.

☒ no need follow up. ☐ need follow up.

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
<u>PHAKHAWAN</u>	<u>WUTTIPORN</u>	<u>NARUPON</u>	<u>NIKON</u>
Date : <u>16-OCT-24</u>	Date : <u>17-OCT-24</u>	Date: <u>17-OCT-24</u>	Date: <u>17-OCT-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
Bearing greasing (EP0= 4 stroke)					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
Coupling visual for vibration check					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan unit visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Fan impeller cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Suction flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
Discharge flexible joint check leak					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
3 Flue gas duct reversal valve ;					
For burner #1 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
For burner #2 reversal valve function check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Hot air leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
Suction flexible joint check leak					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

13 Furnace common stack fan ; (check only MFEI)						
<i>Bearing greasing (EP0= 4 stroke</i>						
<input checked="" type="checkbox"/> greasing	<input type="checkbox"/> cleaning	remark _____				
<i>Belt condition and tension check</i>						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
<i>Fan unit visual for vibration and noise</i>						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
14 Furnace common fume fan ; (check only MFEI)						
<i>Belt condition and tension check</i>						
<input type="checkbox"/> swing	<input checked="" type="checkbox"/> good tension	<input type="checkbox"/> replacement	remark _____			
<i>Fan unit visual for vibration and noise</i>						
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____			
15 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)						
Check at suction duct on fume hood.						
Position	A	B	C	D	E	
Air velocity (m/s)	9	9	9	10	10	
Air velocity average (A+B+C+D+E)/5 = 9.4 m/s						
<u>Conclusion.</u>						
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.						
Item	Description				Follow up by	
	MACHINE NOT RUN					
Done by E&M Technician :	Checked by E&M Engineer :		Acceptance by		Approved by	
PHAKHAWAN	WUTTIPORN		Production Staff :		Assistant / E&M Manager :	
Date : 18-NOV-24	Date : 19-NOV-24		NARUPON		NIKON	
			Date: 19-NOV-24		Date: 19-NOV-24	

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<u>For Melting furnace maintenance</u>				Rev. <u>2</u> Sheet <u>1</u> of <u>3</u>	
Plant		<u>Casting</u>			
Equipment		<u>MFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
2 Flue gas fan;					
<i>Bearing greasing (EP0= 4 stroke)</i>					
<input checked="" type="checkbox"/> greasing		<input type="checkbox"/> cleaning		remark _____	
<i>Coupling visual for vibration check</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan unit visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>Fan impeller cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Suction flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
<i>Discharge flexible joint check leak</i>					
<input type="checkbox"/> leak		<input checked="" type="checkbox"/>		<input type="checkbox"/> not leak	remark _____
3 Flue gas duct reversal valve ;					
<i>For burner #1 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<i>For burner #2 reversal valve function check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Regenerative ball box unit ;					
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Hot air leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____
<i>Suction flexible joint check leak</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak remark _____

5 Damper;				
<i>Wire rope sling function and damage check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>				
<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high	refill _____
6 Charging door;				
<i>Check condition for door seal and clamp condition</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> changed	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning			remark _____
7 Male spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
8 Female down spout;				
<i>Air cylinder for door closing check leak and function</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Refractory condition check</i>				
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
9 Furnace tilting cylinder;				
<i>Hydraulic cylinder check leak</i>				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>				
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable	remark _____
10 All furnace Gas pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input type="checkbox"/> clean	<input type="checkbox"/> not clean			remark _____
11 All furnace air pipe leak check and cleaning ;				
Leak at _____		<input type="checkbox"/> repaired	<input checked="" type="checkbox"/>	<input type="checkbox"/> not leak
remark _____				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____
12 Furnace roof general cleaning;				
<input checked="" type="checkbox"/>	<input type="checkbox"/> clean	<input type="checkbox"/> not clean		remark _____

Bearing greasing (EP0= 4 stroke

Belt condition and tension check

Fan unit visual for vibration and noise

14 Furnace common fume fan; (check only MFE1)

Belt condition and tension check

Fan unit visual for vibration and noise

15 Furnace door fume duct air velocity check ; (normal average at ≥ 10 m/s)

Check at suction duct on fume hood.

Air velocity average $(A+B+C+D+E)/5 =$ **9.4** m/s

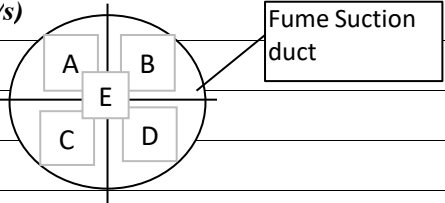
Conclusion.

☒ no need follow up. ☐ need follow up.

Done by E&M Technician :	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
<u>PHAKHAWAN</u>	<u>WUTTIPOORN</u>	<u>NARUPON</u>	<u>NIKON</u>
Date : <u>18-DEC-24</u>	Date : <u>19-DEC-24</u>	Date: <u>19-DEC-24</u>	Date: <u>19-DEC-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
For Holding Furnace maintenance				Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		<u>Casting</u>			
Equipment		<u>HFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

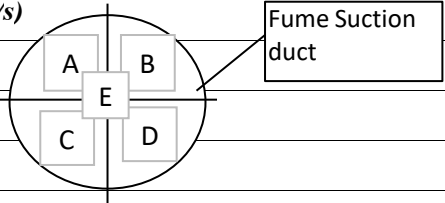
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage <input type="checkbox"/> repaired <input checked="" type="checkbox"/> acceptable remark _____					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing <input type="checkbox"/> cleaning <input checked="" type="checkbox"/> acceptable remark _____					
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
10 All furnace air pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	10	10	11	10	11
Air velocity average (A+B+C+D+E)/5 = <u>10.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
Done by E&M Technician:	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
PHAKHAWA	WUTTIPORN	NARUPON	NIKON
Date : 20-JUL-24	Date : 21-JUL-24	Date: 21-JUL-24	Date: 21-JUL-24

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<i>For Holding Furnace maintenance</i>				Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		<u>Casting</u>			
Equipment		<u>HFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
<i>Wire rope sling function and damage check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
<i>Check condition for door seal and clamp condition</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Refractory condition check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

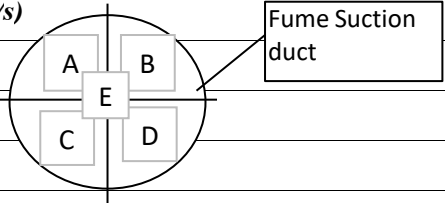
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
10 All furnace air pipe leak check and cleaning ;					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	10	10	11	11	10
Air velocity average (A+B+C+D+E)/5 = <u>10.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
1	HFE1-MSP1 changed spout lounder/male down spout,	Mr. Nimit	
2	HFE1-HYD1 Adding hydraulic oil main tank	Mr. Warakorn	
Done by E&M Technician:		Checked by E&M Engineer :	Acceptance by Production Staff : _____ Date: _____
_____ PHAKHAW Date : <u>16-AUG-24</u>		_____ WUTTIPORN Date : <u>17-AUG-24</u>	Approved by Assistant / E&M Manager : _____ NIKON Date: <u>17-AUG-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
For Holding Furnace maintenance				Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		<u>Casting</u>			
Equipment		<u>HFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/>	<input type="checkbox"/> mid	<input type="checkbox"/> high refill _____	
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/>	<input type="checkbox"/> acceptable remark _____

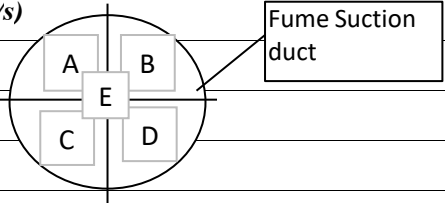
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage <input type="checkbox"/> repaired <input checked="" type="checkbox"/> acceptable remark _____					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing <input type="checkbox"/> cleaning <input checked="" type="checkbox"/> acceptable remark _____					
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
10 All furnace air pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	11	10	11	10	10
Air velocity average (A+B+C+D+E)/5 = <u>10.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
1	HFE1 Changed solenoid valve control transfer spout lic	Mr. Warakorn	
Done by E&M Technician:		Checked by E&M Engineer :	Acceptance by Production Staff : _____ Date: _____
PHAKHAWA _____ Date : <u>20-SEP-24</u>		WUTTIPORN _____ Date : <u>21-SEP-24</u>	Approved by Assistant / E&M Manager : _____ Date: <u>21-SEP-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<i>For Holding Furnace maintenance</i>				Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		<u>Casting</u>			
Equipment		<u>HFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
2 Damper;					
<i>Wire rope sling function and damage check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
<i>Check condition for door seal and clamp condition</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
<i>Wire rope sling condition check and paint greasing</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
5 Female down spout;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> not leak remark _____	
<i>Refractory condition check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

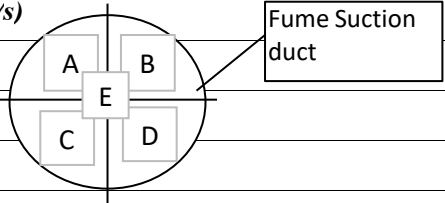
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
10 All furnace air pipe leak check and cleaning ;					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	11	10	11	11	10
Air velocity average (A+B+C+D+E)/5 = <u>10.6</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
1	HFE1-MSP1 Changed spout lounder/male down spout.	Mr. Chatchawal	
Done by E&M Technician:		Checked by E&M Engineer :	Acceptance by Production Staff : _____ Date: _____
_____ PHAKHAWA Date : <u>20-OCT-24</u>		_____ WUTTIPORN Date : <u>21-OCT-24</u>	Approved by Assistant / E&M Manager : _____ NIKON Date: <u>21-OCT-24</u>

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
For Holding Furnace maintenance				Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		<u>Casting</u>			
Equipment		<u>HFE</u>		#1 <input checked="" type="checkbox"/>	#2 <input type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

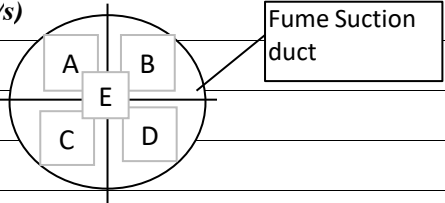
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage <input type="checkbox"/> repaired <input checked="" type="checkbox"/> acceptable remark _____					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing <input type="checkbox"/> cleaning <input checked="" type="checkbox"/> acceptable remark _____					
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
10 All furnace air pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	10	10	11	10	11
Air velocity average (A+B+C+D+E)/5 = <u>10.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
Done by E&M Technician:		Checked by E&M Engineer :	
<u>PHAKHAWA</u>		<u>WUTTIPORN</u>	
Date : <u>21-NOV-24</u>		Date : <u>22-NOV-24</u>	
Acceptance by		Approved by	
Production Staff : <u>NARUPON</u>		Assistant / E&M Manager : <u>NIKON</u>	
Date: <u>22-NOV-24</u>		Date: <u>22-NOV-24</u>	

Meyer Aluminium (Thailand)		E&M Department		Mechanical Section	
Monthly maintenance check sheet For Holding Furnace maintenance				E&M form No. Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		Casting			
Equipment		HFE		#1	#2
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
		<input checked="" type="checkbox"/>	Clean	<input type="checkbox"/>	not clean
		remark _____			
Fan impeller visual for vibration and noise					
		<input type="checkbox"/>	vibration	<input type="checkbox"/>	noise
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
Flexible joint leak check					
		Leak at _____		<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	not leak
		remark _____			
2 Damper;					
Wire rope sling function and damage check					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	changed
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
Gear drive for damper control lube oil level check					
		<input type="checkbox"/>	low	<input checked="" type="checkbox"/>	mid
				<input type="checkbox"/>	high
		refill _____			
3 Charging door;					
Check condition for door seal and clamp condition					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
All Steel block lining condition check					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
Air cylinder for door closing check leak and function					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
		Leak at _____		<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	not leak
		remark _____			
Wire rope sling condition check and paint greasing					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	changed
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
		<input type="checkbox"/>	greasing	<input type="checkbox"/>	cleaning
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
4 Male spout;					
Air cylinder for door closing check leak and function					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
		Leak at _____		<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	not leak
		remark _____			
5 Female down spout;					
Air cylinder for door closing check leak and function					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	acceptable
		remark _____			
		Leak at _____		<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	not leak
		remark _____			
Refractory condition check					
		<input type="checkbox"/>	damage	<input type="checkbox"/>	repaired
				<input checked="" type="checkbox"/>	acceptable
		remark _____			

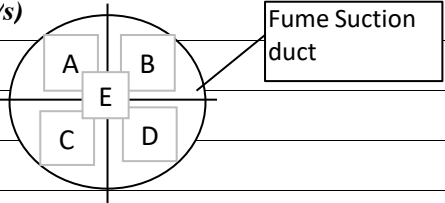
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise <input checked="" type="checkbox"/>		<input type="checkbox"/> acceptable remark _____	
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
10 All furnace air pipe leak check and cleaning ;					
Leak at _____		<input type="checkbox"/> repaired <input checked="" type="checkbox"/> <input type="checkbox"/> not leak		remark _____	
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean		<input type="checkbox"/> not clean		remark _____	
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	10	10	11	10	11
Air velocity average (A+B+C+D+E)/5 = <u>10.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
1	Repairing fume duct hot air leak on furnace roof	Mr. Nikon	
2	Repairing oil leak at furnace lifting door hydraulic cylinder	Mr. Nimit	
Done by E&M Technician:		Accepted by	Approved by
Checked by E&M Engineer :		Production Staff :	Assistant / E&M Manager :
PHAKHAWA		NARUPON	NIKON
Date : 21-DEC-24		Date: 23-DEC-24	Date: 23-DEC-24

Meyer Aluminium (Thailand)		E&M Department		<u>Mechanical</u> Section	
Monthly maintenance check sheet				E&M form No.	
<i>For Holding Furnace maintenance</i>				Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		<u>Casting</u>			
Equipment		<u>HFE</u>		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
<i>Air inlet filter cleaning</i>					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
<i>Fan impeller visual for vibration and noise</i>					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Flexible joint leak check</i>					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
<i>Wire rope sling function and damage check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Gear drive for damper control lube oil level check</i>					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
<i>Check condition for door seal and clamp condition</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>All Steel block lining condition check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Wire rope sling condition check and paint greasing</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
<i>Refractory condition check</i>					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

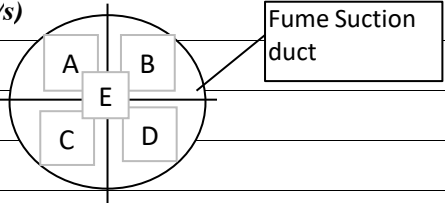
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> acceptable	remark _____		
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/> acceptable	remark _____		
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
10 All furnace air pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	9	9	9	9	9
Air velocity average (A+B+C+D+E)/5 = 9					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
	MACHINE NOT RUN		
Done by E&M Technician:		Checked by E&M Engineer :	Acceptance by Production Staff :
Somparn		WUTTIPORN	NARUPON
Date : 20-JUL-24	Date : 21-JUL-24	Date: 21-JUL-24	Approved by Assistant / E&M Manager :
			NIKON
			Date: 21-JUL-24

Meyer Aluminium (Thailand)		E&M Department		Mechanical Section	
Monthly maintenance check sheet For Holding Furnace maintenance				E&M form No. Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		Casting			
Equipment		HFE		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

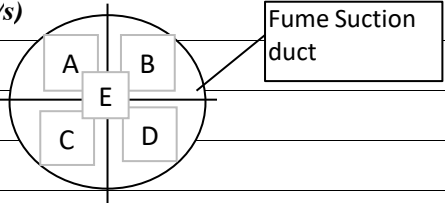
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> acceptable	remark _____		
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/> acceptable	remark _____		
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
10 All furnace air pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	9	9	10	10	9
Air velocity average (A+B+C+D+E)/5 = <u>9.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
	MACHINE NOT RUN		
Done by E&M Technician:		Checked by E&M Engineer :	Acceptance by Production Staff :
Somparn		WUTTIPORN	NARUPON
Date : 16-AUG-24	Date : 17-AUG-24	Date: 17-AUG-24	Approved by Assistant / E&M Manager :
			NIKON
			Date: 17-AUG-24

Meyer Aluminium (Thailand)		E&M Department		Mechanical Section	
Monthly maintenance check sheet For Holding Furnace maintenance				E&M form No. Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		Casting			
Equipment		HFE		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage <input type="checkbox"/> repaired <input checked="" type="checkbox"/> acceptable remark _____					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing <input type="checkbox"/> cleaning <input checked="" type="checkbox"/> acceptable remark _____					
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
10 All furnace air pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	10	9	10	9	9
Air velocity average (A+B+C+D+E)/5 = <u>9.4</u>					

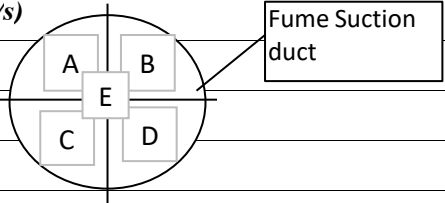


Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
	MACHINE NOT RUN		

Done by E&M Technician:	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
Somporn	WUTTIPORN	NARUPON	NIKON
Date : 20-SEP-24	Date : 21-SEP-24	Date: 21-SEP-24	Date: 21-SEP-24

Meyer Aluminium (Thailand)		E&M Department		Mechanical Section	
Monthly maintenance check sheet For Holding Furnace maintenance				E&M form No. Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		Casting			
Equipment		HFE		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage <input type="checkbox"/> repaired <input checked="" type="checkbox"/> acceptable remark _____					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing <input type="checkbox"/> cleaning <input checked="" type="checkbox"/> acceptable remark _____					
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration <input type="checkbox"/> noise <input checked="" type="checkbox"/> acceptable remark _____					
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
10 All furnace air pipe leak check and cleaning ;					
Leak at _____ <input type="checkbox"/> repaired <input checked="" type="checkbox"/> not leak remark _____					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean <input type="checkbox"/> not clean remark _____					
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	9	9	10	9	10
Air velocity average (A+B+C+D+E)/5 = <u>9.4</u>					

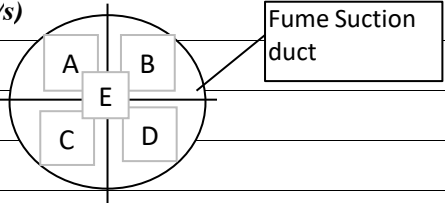


Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
	MACHINE NOT RUN		

Done by E&M Technician:	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
Somparn	WUTTIPORN	NARUPON	NIKON
Date : 20-OCT-24	Date : 21-OCT-24	Date: 21-OCT-24	Date: 21-OCT-24

Meyer Aluminium (Thailand)		E&M Department		Mechanical Section	
Monthly maintenance check sheet For Holding Furnace maintenance				E&M form No. Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		Casting			
Equipment		HFE		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

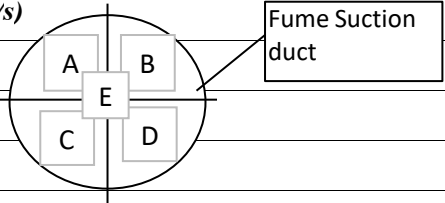
6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> acceptable	remark _____		
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/> acceptable	remark _____		
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
10 All furnace air pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	9	9	9	9	9
Air velocity average (A+B+C+D+E)/5 = 9					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
	MACHINE NOT RUN		
Done by E&M Technician:		Checked by E&M Engineer :	Acceptance by Production Staff :
Somparn		WUTTIPORN	NARUPON
Date : 21-NOV-24		Date : 22-NOV-24	Date: 22-NOV-24
		Approved by Assistant / E&M Manager :	
		NIKON	
		Date: 22-NOV-24	

Meyer Aluminium (Thailand)		E&M Department		Mechanical Section	
Monthly maintenance check sheet For Holding Furnace maintenance				E&M form No. Rev. <u>2</u> Sheet <u>1</u> of <u>2</u>	
Plant		Casting			
Equipment		HFE		#1 <input type="checkbox"/>	#2 <input checked="" type="checkbox"/>
1 Combustion fan;					
Air inlet filter cleaning					
<input checked="" type="checkbox"/> Clean		<input type="checkbox"/> not clean		remark _____	
Fan impeller visual for vibration and noise					
<input type="checkbox"/> vibration		<input type="checkbox"/> noise		<input checked="" type="checkbox"/> acceptable	remark _____
Flexible joint leak check					
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
2 Damper;					
Wire rope sling function and damage check					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
Gear drive for damper control lube oil level check					
<input type="checkbox"/> low		<input checked="" type="checkbox"/> mid	<input type="checkbox"/> high		refill _____
3 Charging door;					
Check condition for door seal and clamp condition					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
All Steel block lining condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Wire rope sling condition check and paint greasing					
<input type="checkbox"/> damage		<input type="checkbox"/> changed		<input checked="" type="checkbox"/> acceptable	remark _____
<input type="checkbox"/> greasing		<input type="checkbox"/> cleaning		<input checked="" type="checkbox"/> acceptable	remark _____
4 Male spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
5 Female down spout;					
Air cylinder for door closing check leak and function					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____
Leak at _____		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> not leak	remark _____
Refractory condition check					
<input type="checkbox"/> damage		<input type="checkbox"/> repaired		<input checked="" type="checkbox"/> acceptable	remark _____

6 Spout lid;					
<i>Air cylinder for door closing check leak and function</i>					
<input type="checkbox"/> damage	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> acceptable	remark _____		
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
7 Furnace tilting cylinder;					
<i>Hydraulic cylinder check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic cylinder turning point greasing for dowel pin and bush (EP0= 3 stroke)</i>					
<input type="checkbox"/> greasing	<input type="checkbox"/> cleaning	<input checked="" type="checkbox"/> acceptable	remark _____		
8 Hydraulic main tank;					
<i>Hydraulic system check leak</i>					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<i>Hydraulic pump visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
<i>Hydraulic pump coupling visual check for vibration and noise</i>					
<input type="checkbox"/> vibration	<input type="checkbox"/> noise	<input checked="" type="checkbox"/> acceptable	remark _____		
9 All furnace Gas pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
10 All furnace air pipe leak check and cleaning ;					
Leak at _____	<input type="checkbox"/> repaired	<input checked="" type="checkbox"/> not leak	remark _____		
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
11 Furnace roof general cleaning;					
<input checked="" type="checkbox"/> clean	<input type="checkbox"/> not clean	remark _____			
12 Furnace door fume duct air velocity check ; (normal average at >=10 m/s)					
Check at suction duct on fume hood.					
Position	A	B	C	D	E
Air velocity (m/s)	9	9	10	9	10
Air velocity average (A+B+C+D+E)/5 = <u>9.4</u>					



Conclusion.			
<input checked="" type="checkbox"/> no need follow up. <input type="checkbox"/> need follow up.			
Item	Description	Follow up by	
	MACHINE NOT RUN		
	Changed main gas ball valve size 3 inch	Mr. Somparn	

Done by E&M Technician:	Checked by E&M Engineer :	Acceptance by Production Staff :	Approved by Assistant / E&M Manager :
Somparn	WUTTIPORN	NARUPON	NIKON
Date : 21-DEC-24	Date : 23-DEC-24	Date: 23-DEC-24	Date: 23-DEC-24

AC Motor condition check														
Item	Description	Condition frame Cooling fan&cover	Remarks	Bolt & Nut Base Motor	Remarks	Cable gland Terminal cover	Remarks	Bearing noise				Running current Test on load		
								DE	Remarks	NDE	Remarks			
1	Flue gas extraction fan M104	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 28.9A	U(A) 8.3	V(A) 8.2	W(A) 7.5
2	Flume gas extraction fan M107	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 32.1A	U(A) 0	V(A) 0	W(A) 0
3	Flue Gas Damper M111	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
4	By pass damper M113	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)

AC Motor Contactor and Overload set point condition check						
Item	Description	Good	Damage	Motor Rate Current (A)	Overload Set point (A)	Remark
1	Flue gas extraction fan Contactor (Good/Damage)	Good		32.8A	38.5	
2	Flume gas extraction fan Contactor (Good/Damage)	Good		36.5A	24.5	
3	Flue Gas Damper Contactor (Good/Damage)	Good		2A	2	
4	By pass damper Contactor (Good/Damage)	Good		2A	2	

All equipment in the machine condition check			
Item	Description	Action	Remark
1	Control Panel Cleaning Inside and Outside	Cleaning inside and outside	
2	PLC Cleaning and tightening	Cleaning and tightening	
3	Sensor and limit SW. Cleaning and tightening	Cleaning and tightening	
4	AC Drive Cleaning	-	

Remarks :

☒ To make line in square box.

E&M Department			
Checked	Premprachad.	Pichet T.	Supervisor
Date	12 Jul 24	31 Jul 24	Date
			Somkiead
			31 Jul 24

FM-04-188

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Checked Date	<u>Premprachad.</u> <u>12 Aug 24</u>	Pichet T. 22 Aug 24	Supervisor Date	<u>Somkiead</u> <u>22 Aug 24</u>
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AC Motor condition check														
Item	Description	Condition frame Cooling fan&cover	Remarks	Bolt & Nut Base Motor	Remarks	Cable gland Terminal cover	Remarks	Bearing noise				Running current Test on load		
								DE	Remarks	NDE	Remarks			
1	Flue gas extraction fan M104	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 28.9A	U(A) 9.4	V(A) 8.9	W(A) 8.8
2	Flume gas extraction fan M107	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 32.1A	U(A) 0	V(A) 0	W(A) 0
3	Flue Gas Damper M111	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
4	By pass damper M113	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)

AC Motor Contactor and Overload set point condition check						
Item	Description	Good	Damage	Motor Rate Current (A)	Overload Set point (A)	Remark
1	Flue gas extraction fan Contactor (Good/Damage)	Good		32.8A	38.5	
2	Flume gas extraction fan Contactor (Good/Damage)	Good		36.5A	24.5	
3	Flue Gas Damper Contactor (Good/Damage)	Good		2A	2	
4	By pass damper Contactor (Good/Damage)	Good		2A	2	

All equipment in the machine condition check			
Item	Description	Action	Remark
1	Control Panel Cleaning Inside and Outside	Cleaning inside and outside	
2	PLC Cleaning and tightening	Cleaning and tightening	
3	Sensor and limit SW. Cleaning and tightening	Cleaning and tightening	
4	AC Drive Cleaning	-	

Remarks : ☒ To make line in square box.

E&M Department			
Checked	PremprachaoD.	Pichet T.	Supervisor
Date	12 Sep 24	26 Sep 24	Date
			Somkiead
			26 Sep 24

AC Motor condition check														
Item	Description	Condition frame Cooling fan&cover	Remarks	Bolt & Nut Base Motor	Remarks	Cable gland Terminal cover	Remarks	Bearing noise				Running current Test on load		
								DE	Remarks	NDE	Remarks			
1	Flue gas extraction fan M104	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 28.9A	U(A) 9.1	V(A) 9.0	W(A) 8.9
2	Flume gas extraction fan M107	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 32.1A	U(A) 0	V(A) 0	W(A) 0
3	Flue Gas Damper M111	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
4	By pass damper M113	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)

AC Motor Contactor and Overload set point condition check						
Item	Description	Good	Damage	Motor Rate Current (A)	Overload Set point (A)	Remark
1	Flue gas extraction fan Contactor (Good/Damage)	Good		32.8A	38.5	
2	Flume gas extraction fan Contactor (Good/Damage)	Good		36.5A	24.5	
3	Flue Gas Damper Contactor (Good/Damage)	Good		2A	2	
4	By pass damper Contactor (Good/Damage)	Good		2A	2	

All equipment in the machine condition check			
Item	Description	Action	Remark
1	Control Panel Cleaning Inside and Outside	Cleaning inside and outside	
2	PLC Cleaning and tightening	Cleaning and tightening	
3	Sensor and limit SW. Cleaning and tightening	Cleaning and tightening	
4	AC Drive Cleaning	-	

Remarks :

☒ To make line in square box.

E&M Department			
Checked	Prempracha. D.	Pichet T.	Supervisor
Date	17 Oct 24	28 Oct 24	Date
			28 Oct 24

AC Motor condition check														
Item	Description	Condition frame Cooling fan&cover	Remarks	Bolt & Nut Base Motor	Remarks	Cable gland Terminal cover	Remarks	Bearing noise				Running current Test on load		
								DE	Remarks	NDE	Remarks			
1	Flue gas extraction fan M104	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 28.9A	U(A) 9.7	V(A) 9.4	W(A) 9.6
2	Flume gas extraction fan M107	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 32.1A	U(A) 0	V(A) 0	W(A) 0
3	Flue Gas Damper M111	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
4	By pass damper M113	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)

AC Motor Contactor and Overload set point condition check						
Item	Description	Good	Damage	Motor Rate Current (A)	Overload Set point (A)	Remark
1	Flue gas extraction fan Contactor (Good/Damage)	Good		32.8A	38.5	
2	Flume gas extraction fan Contactor (Good/Damage)	Good		36.5A	24.5	
3	Flue Gas Damper Contactor (Good/Damage)	Good		2A	2	
4	By pass damper Contactor (Good/Damage)	Good		2A	2	

All equipment in the machine condition check			
Item	Description	Action	Remark
1	Control Panel Cleaning Inside and Outside	Cleaning inside and outside	
2	PLC Cleaning and tightening	Cleaning and tightening	
3	Sensor and limit SW. Cleaning and tightening	Cleaning and tightening	
4	AC Drive Cleaning	-	

Remarks : ☒ To make line in square box.

E&M Department			
Checked	Prempracha. D.		
Date	19 Nov 24	28 Nov 24	Supervisor Date 28 Nov 24

AC Motor condition check														
Item	Description	Condition frame Cooling fan&cover	Remarks	Bolt & Nut Base Motor	Remarks	Cable gland Terminal cover	Remarks	Bearing noise				Running current Test on load		
								DE	Remarks	NDE	Remarks			
1	Flue gas extraction fan M104	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 28.9A	U(A) 9.5	V(A) 9.8	W(A) 9.7
2	Flume gas extraction fan M107	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 32.1A	U(A) 0	V(A) 0	W(A) 0
3	Flue Gas Damper M111	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
4	By pass damper M113	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not OK		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Loose		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input checked="" type="checkbox"/> OK <input type="checkbox"/> Not Ok	Limit 80% Load 3.1A	U(A) 0	V(A) 0	W(A) 0
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)
		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Not OK		<input type="checkbox"/> OK <input type="checkbox"/> Loose		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		<input type="checkbox"/> OK <input type="checkbox"/> Not Ok		U(A) 	V(A) 	W(A)

AC Motor Contactor and Overload set point condition check						
Item	Description	Good	Damage	Motor Rate Current (A)	Overload Set point (A)	Remark
1	Flue gas extraction fan Contactor (Good/Damage)	Good		32.8A	38.5	
2	Flume gas extraction fan Contactor (Good/Damage)	Good		36.5A	24.5	
3	Flue Gas Damper Contactor (Good/Damage)	Good		2A	2	
4	By pass damper Contactor (Good/Damage)	Good		2A	2	

All equipment in the machine condition check			
Item	Description	Action	Remark
1	Control Panel Cleaning Inside and Outside	Cleaning inside and outside	
2	PLC Cleaning and tightening	Cleaning and tightening	
3	Sensor and limit SW. Cleaning and tightening	Cleaning and tightening	
4	AC Drive Cleaning	-	

Remarks :

☒ To make line in square box.

E&M Department			
Checked	Prempracha. D.		
Date	18 Dec 24	 27 Dec 25	Supervisor Date  27 Dec 25