UNIT NO - 02		EVENT ANALYSIS REI	Unit Capacity	v : 210 MV	V	
UNIT NO: 02	TPS: Khaperkheda TF	Time -	Date -	No. of days from last sync. :		
L. *HO Code :	Station Code: T003	10:07Hrs 1	3/04/2016	109 da		
	nditions at the time of E		iaa		Oil Support	
		Coal Cycles in se	Coal Cycles in service		AB-1*AB-4	
69 MW 3. Nature of Event: Set withdrawn (hand tripped)		· ·				
4. Name of Firs	t Up, Main Protections & Pon Operated, Manual Turbine	rotection on which	GCB tripped :		a	
Operated.	in operated, Mandar Farbine	, inp, 1100000001111	,			
5A) Observatio	ns. On date 13/04/2016 at 1	0:07 Hrs set was forc	ed withdrawn	due to ID f	an problem, when the	
load was 69 N	IW with coal mill C in service	e and oil support at Al	B (1,4) elevation	n.		
5B) Remedial A	ction/Work done: ID fan 2	A DE bearing replaced	d. NDE bearing	clearance	s checked. Coupling	
	aced. Fan casing leakages att					
	n of boiler validity statutory		out in present	e of Joint	Director of Steam Boiler	
Nagpur at 201.8	8 Kg/cm2 and found satisfac	tory.				
C Doot Course A	nalysis: At 09:37 hrs on Dt.	13/04/2016 ID Fan-2	A tripped due	to bearing	temperature very high	
(Fan DF) Als	o, boiler validity of Unit-2 w	as expiring on 16/04/	16 and needed	d to be ext	ended further.	
	ction suggested (Short Ter					
8. Preventive a	ction suggested (Long Terr	n):-				
9. Similar event occurred last time:-		Unit No # 2,	Time: 05:08 Hrs		Date 10/05/2014	
9. Similar even	l occurred fast time:-	210 MW	Time . os.	001113	Date 10/03/2011	
Remedial Actio	et withdrawn due to ID Far ons: tor A & B Seal Air Fan Mot					
	Internal Inspection done.					
	ring replaced as it was four					
NDE Bearing fo	ound OK. All allied work ca	arried out & trial fou	ınd OK.			
9A. Implement	ation Status of Long Term/	Short Term measur	es stated at Si	. No 7 & 8	:-	
10. Boiler ligh	ted up	Time - 18:38 H	Time - 18:38 Hrs		Date - 15/04/2016	
11. T-A Set Sy	nchronized	Time - 23:29 H	Гime - 23:29 Hrs		Date - 15/04/2016	
	urnace second pass water waterwatended. A sheet showing de			ng done. Se	eal trough leakages	
				Å	ΛΛ.	
					Zodlios	
				Chief Eng	ineer	
13. Recommen	dations of Works Section:					
	dations of Works Section: t/Replacement Plan:					
	t/Replacement Plan:					
1. Procuremen	t/Replacement Plan: Error:					
 Procurement Operational Delay in Mai 	t/Replacement Plan: Error:					
1. Procurement 2. Operational 3. Delay in Mai 4. Delay in brit	t/Replacement Plan: Error: ntenance: nging back the Unit:					
 Procurement Operational Delay in Mai Delay in brit Training of S 	t/Replacement Plan: Error: ntenance: nging back the Unit:	satisfactory & point	is closed:			



J. No. U-40100 MH 2005 PLC 153648

MAHARASHTRA STATE POWER GENERATION CO. LTD. KHAPERKHEDA THERMAL POWER STATION

(ISO 9001:2008, ISO 14001:2004 & ISO 18001:2007) Office of: Chief Engineer, T.P.S., Khaperkheda,

Dist. Nagpur, PIN - 441102

Phone: (07113) 268168 to 172,268236,268131

FAX: 268239(Off)/268123(Site) Email – cegenkpkd@mahagenco.in



Unit # 2 Short Shut down Report (dtd.13/04/2016 to 15/04/2016)

Unit 2 boiler MR No. 11614 was withdrawn on dated 13/04/2016 at 10:07 Hrs. for ID fan & boiler recertification. Statutory hydraulic test was carried out in presence of Joint Director of Steam Boiler, Nagpur on Dtd. 14/04/2016 & found satisfactory. The unit was lighted up on Dtd. 15/04/2016 at 18:38 Hrs. and synchronized on Dtd. 15/04/2016 at 23:29hrs.

Furnace

- 1. Furnace first pass and second pass door open for forced cooling of boiler.
- 2. After sufficient cooling furnace pressurization test carried out and observation are as follows.
 - Flue gas leakages observed in cat house front and rear side.
 - Wind box top LHS & RHS side water washing done. At corner no. 1,2,3 & 4 LHS & RHS top
 portion corner leakages attended by welding and refractory 6 bags provided.
- 3. Above flue gas leakages attended by welding work and pouring of refractory.
- 4. Furnace first pass neck scaffoldings done.
- 5. Furnace second pass water washing completed and second pass inspection carried out found OK.
- 6. Departmental Boiler hydraulic test taken at 200 kg / cm² at 12:30 Hrs. Dtd. 14/04/2016 & found satisfactory.
- 7. Statutory hydraulic test carried out in presence of Joint Director of Steam Boiler, Nagpur at 201.88 kg / cm² at 17:50 Hrs on Dtd. 14/04/2016 & found satisfactory.
- 8. All men and material are removed all man hole door closed as a clearance given for boiler light up at 17:28 Hrs. on dtd. 15/04/2016.

Burner Tilt

- A) Burner tilt / wind box.
 - a. Wind box corner 1, 3 & 4 top insulation removed after LHS + RHS water washing corner leakages attended and refractory provided.
 - b. Wind box corner 2 & 3 bottom end air tip side panel opened and corner leakages attended and boxed up.
 - c. LHS & RHS wind box ash removed.
 - d. EF1 & DE 2, scanner guide pipe cleaned.
 - e. CD2 & CDD 4 igniter guide assembly cleaned.
 - f. BTPC corner no. 4 decoupled. After power cylinder servicing work again coupled and tilt trial taken and found normal.
 - g. Oil the old guns cleaned. 4 nos. of oil gun front end assembly replaced and 4 Nos. oil gun mixing chamber replaced.

Air Preheater 2A & 2B

APH 2A & 2B, washing done. HE manhole doors & FD discharge duct during opened.
 Unit 2 Short Shut down Report (dtd.13-04-2016 to 15-04-2016)- hp- 2016 » 1



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.g. No. U-40100 MH 2005 PLC 153648

- 2. Both APH Internal inspection done.
- 3. Both APH drive unit checked, fluid coupling oil level checked & found normal. GB & drive unit cleaned.

MAHARASHTRA STATE POWER GENERATION CO. LTD. PERKHEDA THERMAL POWER STATION

- 4. Both APH flue gas side damaged by pass seal removed. Damaged bypass seal holding angle 04 Nos. replaced by new and gas side all the bypass replaced by new and setting done.
- 5. APH 2A & 2B, damaged HE radial seal 36 Nos. replaced by new and other seals resetting done.
- 6. Rotor angle patching done 09 Nos.
- 7. APH 2A, slant portion leakage attended by patch welding.
- Both APH HE back side casing patching done and leakages attended. 8.
- 9. Water washing header 2 Nos. patching done and leakages attended.

BOTTOM ASH HOPPERS

- 1. B.A. hopper made empty and hopper cleaned. After opening man hole doors, scaffolding erection done in both side.
- 2. All the damaged bend seal through wire mesh removed and replaced by new.
- 3. RCW header shrouding replaced.
- 4. After completion of internal repair refractory casting done.
- 5. All the flushing nozzles cleaned and all he headers trial taken one by one.
- 6. Seal through cleaned and corner leakage attending by welding.
- 7. Seal through wire mesh fitting done all the damaged mesh and holding bolts replaced by new.
- 8. Scaffolding and scrap material removed hopper cleaned.
- 9. B.A. hopper seal through stiffeners welding done.
- 10. Seal through & B.A. hopper filled and trial taken. Trial found normal.

LP, HP valves

- 1. Auxiliary steam drain line valve of corner 4 replaced by new "1" globe valve 800 Class.
- 2. OS 27 isolating valve servicing done and flange gasket replaced.

Duct

- a. APH out let to ESP inlet duct inspection done.
- Duct "C" back side casing patching done and leakages attended.

ID fan

ID fan 2A DE bearing replaced. NDE bearing clearance checked. Coupling bushes replaced. Fan casing leakages attended.

Executive Engineer (BM-I)