

# Oskarshamn



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Unit 1 official under de-commissioning since august 2017

- Last operation cycle ended 17 of june 2017
- Turbine (and plant) runs last operation cycle under very low vibration levels - Most likely lower than ever.
- A clear positive effect was less corrective maintenance



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Unit 2 official under de-commissioning since 2015



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## Unit 3

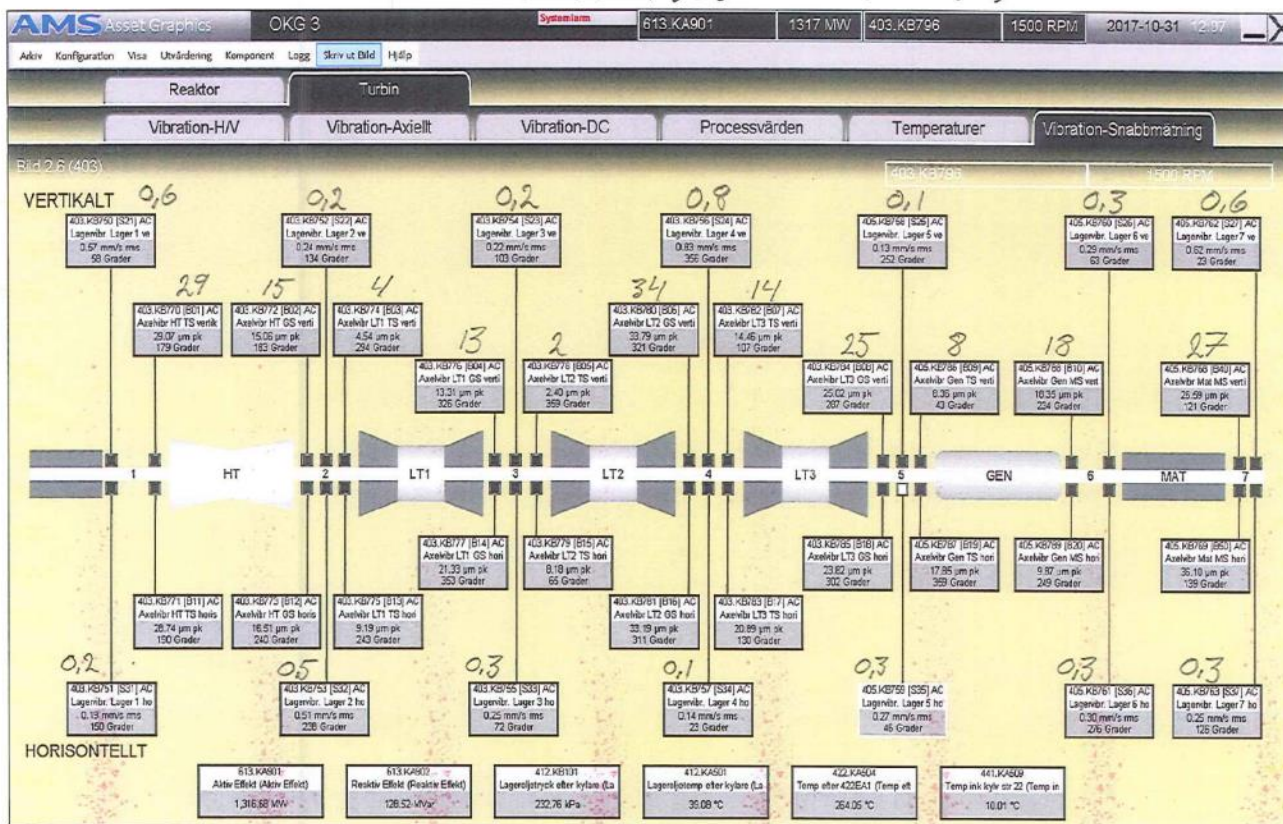
- 2016 new production record – above 10 billion kWh
- Extend operation cycle with 4 month – from May to August
- Planned 45 days outage – extend with 15 days
- Back in operation since 23 of October
- At 125 % power (6/11 - 2017)



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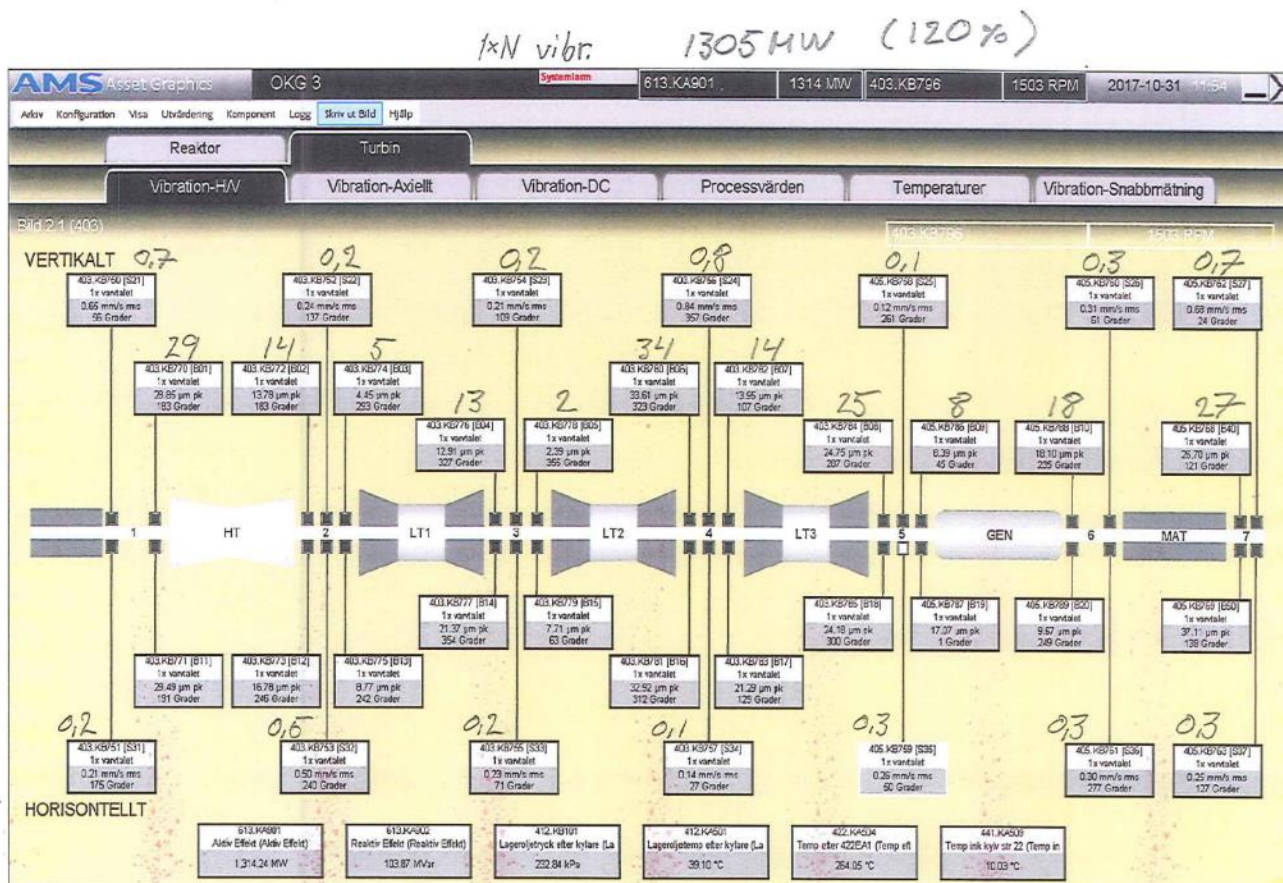
## Unit 3

Tot. vibr. 1305 MW (120%)



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## Unit 3



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## Unit 3

- Vibration comes exclusively from 1xn
- Over all level very low – bearing vibration in principal below 0,5 mm/s
- As usually vibration level for bearing 4 above the other one – that will most likely decrease at full power (129,1%)
- No cyclic vibration – so far



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## Unit 3 - cyclic vibration

- Most likely cyclic vibration comes from H2 sealing system
- Usually appears after some process change – like pump shifts





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## Unit 3



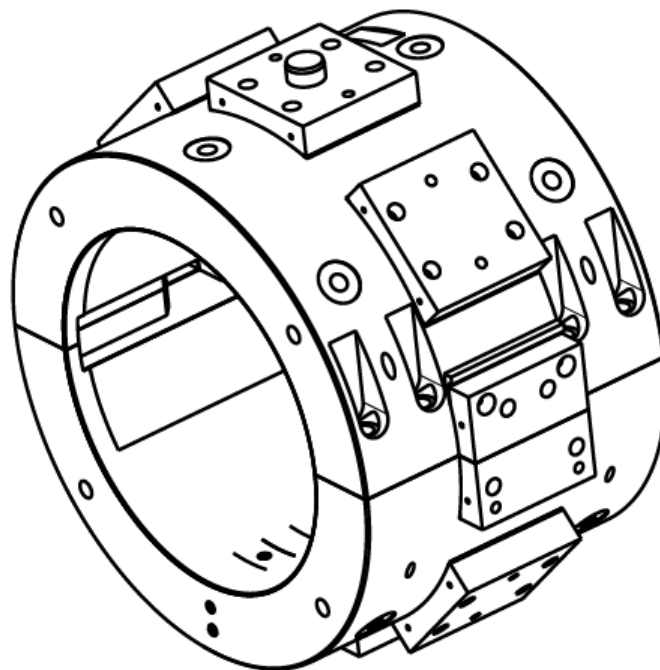
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## Bearing configuration - Unit 3

VITESSE DE ROTATION-1500tr/mn-ROTATIONAL SPEED-1500RPM								
posit.COUSS.		$\phi$	Larg-Width	ChargeLoad	Huile-Oil			
locat.JNL BRG	TYPE	D=mm	L=mm	daN	T. °C	Pres.	TYPE	L/D
HP av - HP front	S	400	355	35507	40	0,7	VG46	0,9
BP1av - LP1front	S	900	900	167171	40	0,7	VG46	1,00
BP2av - LP2front	R1T	900	900	265584	40	0,7	VG46	1,0
BP3av - LP3front	R1T	900	900	257494	40	0,7	VG46	1,0
ALTav-GENfront	R1T	900	900	241053	40	0,7	VG46	1,0
ALTar-GENrear	S	800	680	106665	40	0,7	VG46	0,85
EXCar-EXClrear	S	315	280	9429	40	0,7	VG46	0,9

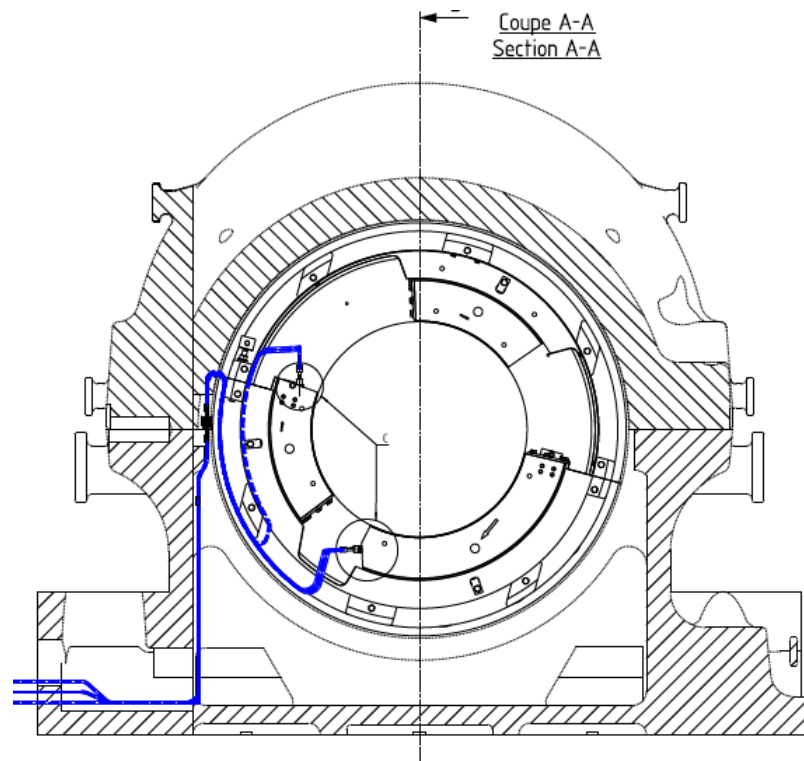
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Unit 3 – R1T Bearing  
Bearing 3, 4 and 5 –  
Retrofitted 2009



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Unit 3 – 3 S(egment) Bearing  
Bearing 1 and 7 OEM – Bearing 2  
and 6 Retrofitted 2009



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