

HPP DALEŠICE PUMP-TURBINE 2006



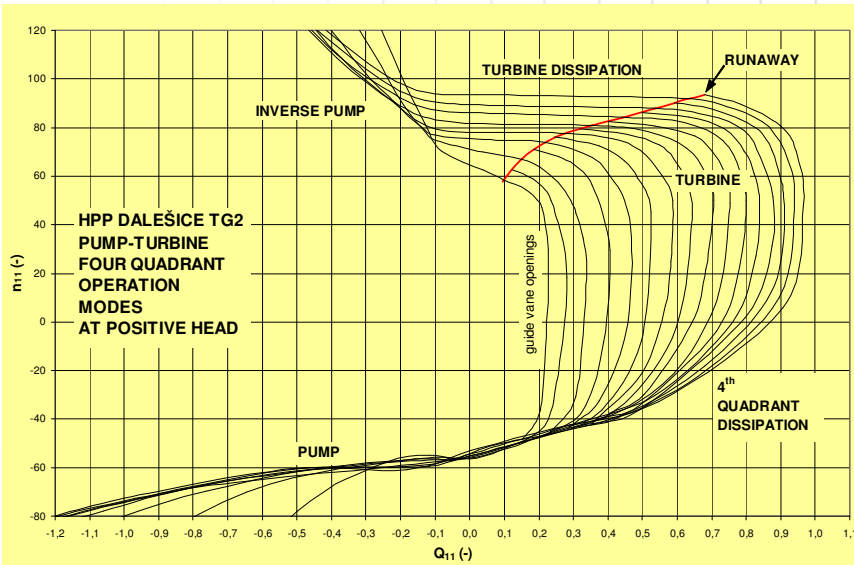
Model development with testing

Power plant owner:
ČEZ, Czech Republic

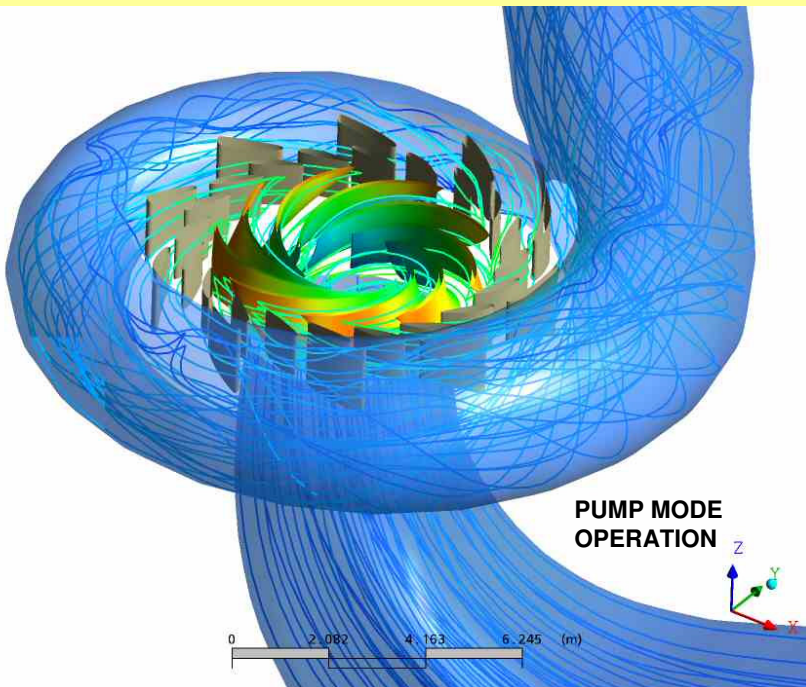
Consulting:
Ing. František Šob

Technical data

		Operation	
		Turbine	Pump
Head	m	88,74	70,0
Flow	m ³ /s	151,4	143,0
Capacity	MW	121,3	106,7
Speed	rpm	136,36	
No. of units		1	



New runner/impeller with 9 blades was designed instead of old one with 7 blades. Stay and guide vanes were also modified. Advanced CFD technique of nonstationary flow field calculation through complete pump-turbine in pump and turbine modes was performed. Complete series of model tests were performed in four quadrant operation modes.



DEVELOPMENT, TESTING

TURBINES