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# Upgrade to high duty cycle

This page contains a list of items that need to be changed/modified, when Linac4 is upgraded to high duty cycle to act as a front-end for the high-power SPL. It doesn't claim to be complete but hopefully it will grow with time.

Equipment	Change	Comment	Date of note
klystron modulators	upgrade to 50 Hz	complete replacement	3 September 2008
cooling water in RF structures	needs to be changed to demineralised water	otherwise the high flow speed of town water in the cooling channels will erode the channels and yield leaks	3 September 2008
DTL cooling	connect all cooling channels		3 September 2008
H- source	replace with high-duty source		3 September 2008
cooling water	install new pipes with larger diameter	to cover the increased cooling needs	3 September 2008
DTL tuners	retune due to higher temperature		3 September 2008
DTL tuners	add cooling circuit to tuners	complete replacement?	3 September 2008
DTL cooling	increase water flow	in particular through DTs	3 September 2008
power couplers buncher cavities	replacement with ceramics based windows		2012-01-11

-- FrankGerigk - 03 Sep 2008

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This topic: SPL > HighPowerUpgrade

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