Electricity/Heat dissipation in the UX cavern												27-03-200	3			1		
				a	Il numbers are give	en in kW							cooled by				ed	
ltem												Sum	power cooled by water	heat dissipated to air inside the barrack (cooled by the air cond)	heat dissipation to air	Mixed water	Chilled water Deminerilzed	
Counting house																	_	
Electronics in Dealer (50) in efficience (	D1		D2	A/B (D3)								400	400	04.05	•			
Electronics in Racks (5% inefficiency) Electronics not in racks (PCs and others, during			203	236								439	439	21.95	0	x x		
comissioning for example)	2		2	2								6		6	0	×		
Light	1		1	1		1						3		3	0	x		1
People (100 W / person if 10> 1kW)										1		1		1	0			]
General Service												?		0	0	x		
Farm (5% inefficiency)	574		280									854	854	42.7	0	x x		4
Total in the counting houses								L			L			74.65		<b> </b>		
Counting House area			0		the estimate													
Gas system	Gas plat 86 2		Gas plat 84	DELPHI Barrel	Head wall							4		0	4			
Cooling system	2		2									4		0	4			
Air conditioning 18 kW consumption max per unit (estimate of kW dissipated)		?												0	?			We don't know what power dissipated from the air conditionner units
Exhibition (DELPHI)		2										2		0	2			
Magnet (MSS &MCS) Electronics close to PZ					1.5							1.5		0	1.5		_	
SUM												1314.5	1293	74.65	<u>11.5</u>		_	
Detector area																		
	VELO + VETO	IT + TT	RICH 1 + 2		Magnet	OT	ECAL/HCALPS/SPD			Others	Muon							
Electronics in Racks (cooled, 5% inefficiency)	1.6				ž		17.3				11.5	30.4	38			x		]
On-detector elec. (cooled, 15% inefficiency)		3				8.5						11.5	12			х	х	
Service boxes (20% inefficiency)		_										0	0			x		4
On-detector electronics (s-box, cables) not cooled so far	12	7.23	2			8	2.7				10.5				42.43			
pumps, lights										5		5			5			]
Magnet					8.5							8.5			8.5			
Others												0		-	?		_	
SUM	13.6	10.23	2		8.5	16.5	20	0	0		22	55.4	<b>50</b>		<u>55.93</u>			]
													1343					
TOTAL to be cooled by mixed water						-			1				1343	1500 - the to				-
Left cooling capacity by mixed water			<u> </u>															

Not sure, to be confirmed

For the RICH it might be doubled !?

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