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1	Q.	B-75, Replace Battery Banks and Chargers, \$576, 400
2		Please provide the criteria used by NLH to determine whether batteries will be
3		replaced with flooded or VRLA type batteries.
4		
5		
6	A.	By default, Hydro replaces batteries with flooded-cell batteries as they have a lower
7		total cost of ownership. However, there are two circumstances when a VRLA
8		battery is installed – when floor space is limited, since VRLA batteries take up less
9		space and when the battery must be installed in a room that is incapable of
10		exchanging air in sufficient volumes to allow the installation of flooded-cell
11		batteries, as in the case of some smaller buildings. Flooded-cell batteries produce

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explosive hydrogen gas as a by-product of the battery charging process, so they are

normally installed in a separate room with adequate ventilation to keep ambient

hydrogen levels to a minimum.