There is a similarity between steps in the biological process and steps in industrial processes. all the steps are done for specific task. this semester in biology we studied many cycles and their steps to achieve require task.

Like hormone controls cycle, this cycle explains the hormone control in the menstrual cycle in female body. as the hormones in this cycle like estradiol and progesterone send negative or positive feedback to the hypothalamus to stop or continue releasing FSH and LH.

As in the ovulation cycle “which is part of the menstrual cycle” when the estradiol level increase, it sends a positive feedback to the hypothalamus to continue releasing LH and FSH to make the egg erupted from the follicle to go to continue the cycle.

And in luteal phase after the corpus luteal start to release progesterone, when the egg is not fertilized. the level of progesterone and estradiol suddenly decrease and send negative feedback for the hypothalamus to stop releasing Lh and FSH, so the uterine lining damage and the female start bleeding.

It is the same in acid gas removing from natural gas. as in this process the factory need to purify the neutral gas from acid gases by using amine that can adsorb the acid gases.

so when the level of acid gases increase it sends a positive feedback to the industry to release amines to remove them. and when the acid gas level still normal, it send a negative feedback to the industry to not release amine at this time.

understanding the process of menstrual cycle helped us to link it with the acid gas removing process and understand the mechanism more and help to find the suitable solution.